

Bureau of Waste Prevention - Industrial Wastewater

BWP IW 38 & BWP IW 39

Permit for Industrial Sewer User

W201133	
Transmittal Number	
130595	
Eacility ID# (if known)	

DEP Use Only

Important Instructions for Completing This Form

Date Received

The questions on this form apply to existing and new facilities discharging industrial wastewater to sewers. If you are completing this form for an existing facility, answer the questions as they apply to its current status. If you are completing this form for a new facility, your answers will reflect your commitment to comply with the requirements as set forth in each question.

Existing facilities are defined as facilities in existence as of July 12, 2007. New facilities are defined as facilities constructed after July 12, 2007.

Answer all questions, except those that you are directed to skip. Please DO NOT answer questions that you are directed to skip

Permit Category (Select One)

BWP IW 39: Industrial Sewer User in Non-IPP POTW discharging more than 25,000 GPD

A. Facility Information

Rohm and Haas Electronic Materials, LLC 1a. Facility Name 455 Forest Street 1b. Facility Address 1 1 1c. Facility Address 2 MA 01752 1d. City 1e. State 1f. Zip Code (508) 229-7250 (508) 460-0522 1g. Phone Number 1h. Fax Number 04-3252691 11. Federal Employer Tax Identification Number (FEIN or TIN)

only the tab key to move your cursor - do not use the return key.

Important:

forms on the

computer, use

When filling out





1d. City		1e. State	46 7:- 0
•			1f. Zip Code
(508) 229-7250		(508) 460-0522	
.1g. Phone Number		1h. Fax Number	
04-3252691			
1i. Federal Employer Tax Identification	n Number (FEIN or TIN)		
Mailing Address: ⊠ Chec	ck here if same as Facilit	y Address and sk	ip to Contact Information.
20 Mailion Address Charles D.O. B.			
2a. Mailing Address: Street or P.O. Bo) X		
2b. Mailing Address 2			· · · · · · · · · · · · · · · · · · ·
2c. City		. State	2e. Zip Code
Contact Information:			
Sarita Croce			
3a. Contact Person Name			
Environmental Engineering Ma	nager		· .
3b. Contact Person Title		·	
(508) 229-7250			
3c. Phone Number	3d.	Extension	
SCroce@rohmhaas.com			
3e. Email Address			*•



1.

Massachusetts Department of Environmental Protection Bureau of Waste Prevention – Industrial Wastewater

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B. Industrial Wastewater Information

ojoot Bioonipile	on (Check All That Ar	oply)		
☐ 1a. New Cons	truction	1b	. Permit Renewal	
1c. Increasing	Flow From Existing Co	onnection 1d	I. New or Modified Indus Pretreatment System (
	npermitted Connection	NP IW 10 was submit	•	
(00)388008	04 501010 17 12107	·	tiod to made. In bo	odinibor 1000,
best describe	the facility producing	cance, the Standard Ir g the discharge in tern sification title. (See Ap	ns of the principal prod	ducts or services
2899		Chem	nicals and Chemical P	reparations, NEC
2a. SIC Code		Descrip	otion	
2b. SIC Code		Descrip	tion	
2c. SIC Code		Descrip	otion	· .
2d. SIC Code		Descrip	tion	
			v(s) in gallons per day	
facility going t	o the Publicly Owned riod from 11/2006 th S01 3a. Connection #	d Treatment Works (Ponrough 10/2007) NS02 3b. Connection #		sented below for 3d. Total Flow, All Connections
facility going t	o the Publicly Owned riod from 11/2006 th S01	d Treatment Works (Ponrough 10/2007) NS02	OTW): (flow data pre	sented below for 3d. Total Flow,
facility going to S01 is for per	o the Publicly Owned riod from 11/2006 th S01 3a. Connection # 14,900 GPD 45,100	1 Treatment Works (Ponrough 10/2007) NS02 3b. Connection # 2,114 GPD 258	OTW): (flow data pre	3d. Total Flow, All Connections 17,014 GPD 45,358
facility going to S01 is for per	o the Publicly Owned riod from 11/2006 the S01 3a. Connection # 14,900 GPD 45,100 GPD	Treatment Works (Ponrough 10/2007) NS02 3b. Connection # 2,114 GPD 258 GPD	OTW): (flow data pre	3d. Total Flow, All Connections 17,014 GPD 45,358 GPD
facility going to S01 is for per	o the Publicly Owned riod from 11/2006 th S01 3a. Connection # 14,900 GPD 45,100	1 Treatment Works (Ponrough 10/2007) NS02 3b. Connection # 2,114 GPD 258	OTW): (flow data pre	3d. Total Flow, All Connections 17,014 GPD 45,358
facility going to S01 is for per SANITARY INDUSTRIAL	o the Publicly Owned riod from 11/2006 the S01 3a. Connection # 14,900 GPD 45,100 GPD 60,000 GPD	Treatment Works (Ponrough 10/2007) NS02 3b. Connection # 2,114 GPD 258 GPD	OTW): (flow data pre	3d. Total Flow, All Connections 17,014 GPD 45,358 GPD 62,372 GPD
facility going to S01 is for per SANITARY INDUSTRIAL TOTAL 4. Are you in com	o the Publicly Owned riod from 11/2006 the S01 3a. Connection # 14,900 GPD 45,100 GPD 60,000 GPD npliance with the Mass	Treatment Works (Ponrough 10/2007) NS02 3b. Connection # 2,114 GPD 258 GPD 2,372 GPD	OTW): (flow data pre 3c. Connection # GPD GPD GPD Commission requirem	3d. Total Flow, All Connections 17,014 GPD 45,358 GPD 62,372 GPD nents?
facility going to S01 is for per SANITARY INDUSTRIAL TOTAL 4. Are you in com	o the Publicly Owned riod from 11/2006 the S01 3a. Connection # 14,900 GPD 45,100 GPD 60,000 GPD npliance with the Mass	Treatment Works (Ponrough 10/2007) NS02 3b. Connection # 2,114 GPD 258 GPD 2,372 GPD ssachusetts Historical You Must Comply With M	OTW): (flow data pre 3c. Connection # GPD GPD GPD Commission requirem	3d. Total Flow, All Connections 17,014 GPD 45,358 GPD 62,372 GPD nents?
facility going to S01 is for per SANITARY INDUSTRIAL TOTAL 4. Are you in com	o the Publicly Owned riod from 11/2006 the S01 3a. Connection # 14,900 GPD 45,100 GPD 60,000 GPD npliance with the Mass	Treatment Works (Ponrough 10/2007) NS02 3b. Connection # 2,114 GPD 258 GPD 2,372 GPD ssachusetts Historical You Must Comply With M	OTW): (flow data pre 3c. Connection # GPD GPD GPD Commission requirem Massachusetts Historical an Submit This Application	3d. Total Flow, All Connections 17,014 GPD 45,358 GPD 62,372 GPD nents? Commission



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В

treated, before discharg		ndustrial wastewater before	pretreatment, or if not
⊠ 6a. Metals, Asbestos, Cya	nide, Phenols		
If Metals, Asbestos, Cyanic (mg/L):	le, or Phenols are pre	esent, provide concentration	s in milligrams per liter
1. Antimony (total) (Sb)	See Attachment A	9. Nickel (total) (Ni)	mg/L
2. Arsenic (total) (As)		10. Selenium (total) (Se)	
3. Beryllium (total) (Be)	mg/L `	11. Silver (total) (Ag)	mg/L
4. Cadmium (total) (Cd)	mg/L	12. Thallium (total) (TI)	mg/L
	mg/L	- 12. Mailan (total) (11)	mg/L
5. Chromium (hexavalent)	mg/L	13. Zinc (total) (Zn)	mg/L
6. Chrome (total) (Cr)		14. Asbestos	
7. Copper (total) (Cu)	mg/L	15. Cyanide (total) (CN)	mg/L
7. Copper (total) (Cu)	mg/L	To. Oyanida (total) (ON)	mg/L
8. Lead (total) (Pb)	mg/L	16. Phenols (total)	mg/L
		,	n in micrograms per lite
If Toxic Pollutants are prese	nt, provide the total T and Attachment A	oxic Pollutants concentratio	ants Form to list individual
If Toxic Pollutants are prese (ug/L): See Toxic Pollutant Forms	nt, provide the total T and Attachment A tration (ug/L)	oxic Pollutants concentration NOTE: Use the Toxic Polluta toxic chemicals and their cond	ants Form to list individual
If Toxic Pollutants are prese (ug/L): See Toxic Pollutant Forms 6b1. Total Toxic Pollutants Concen	nt, provide the total T and Attachment A tration (ug/L) ocarbons (TPH) > 15	oxic Pollutants concentration NOTE: Use the Toxic Polluta toxic chemicals and their cond	ants Form to list individual
If Toxic Pollutants are prese (ug/L): See Toxic Pollutant Forms 6b1. Total Toxic Pollutants Concen See Toxic Pollutants Concen	nt, provide the total T and Attachment A tration (ug/L) ocarbons (TPH) > 15	oxic Pollutants concentration NOTE: Use the Toxic Polluta toxic chemicals and their cond	ants Form to list individual
If Toxic Pollutants are prese (ug/L): See Toxic Pollutant Forms 6b1. Total Toxic Pollutants Concen ☐ 6c. Total Petroleum Hydro ☐ 6d. pH <5 and >10 Stand ☐ 6e. Other*	nt, provide the total T and Attachment A tration (ug/L) ocarbons (TPH) > 15 ard Units (S.U)	oxic Pollutants concentration NOTE: Use the Toxic Polluta toxic chemicals and their cond	ants Form to list individual
If Toxic Pollutants are prese (ug/L): See Toxic Pollutant Forms 6b1. Total Toxic Pollutants Concen 6c. Total Petroleum Hydro 6d. pH <5 and >10 Stand	nt, provide the total T and Attachment A tration (ug/L) ocarbons (TPH) > 15 ard Units (S.U) ent, describe them:	oxic Pollutants concentration NOTE: Use the Toxic Polluta toxic chemicals and their condemg/L	ants Form to list individual centrations.



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B. Industrial Wastewater Information (continued)

7. Is Mercury (discharge?	(Hg) present in your industrial w	astewater before pretreatment, or if not treated, before
☐Yes	⊠ No*	*If No, skip to Question 8.
7a. If Yes, hav eliminate the n		cury sources and taken all reasonable steps to
☐ Yes*	□ No	*If Yes, skip to Question 8.
7b. If No, expla	ain why.	
		·
Marlborough W Name of POTW 9. Do you have	See Appendix C in the Instruction Vesterly Waste Treatment Works a current sewer connection disc	,
⊠ Yes	□ No*	*If No, you must obtain either a permit or, if a permit is not required, a written approval from your local POTW to discharge BEFORE you can submit this application.
If you have a pe	ermit, provide the following infor	mation, then skip to Question 10.
SIU 4817950 (S 9a. Permit Number	01) & NSIU4817950-1 (NS02)	12/03/2011 (S01) and 02/09/2008 (NS02) 9b. Permit Expiration Date
If you have a wr	itten approval, provide the follow	wing information:
9c. Date of Approva	Letter	9d. Name of Person Who Signed the Letter
10. Are your PO	TW and local Sewer Authority t	he same entity? (See Section 17B in the Instructions.)
⊠ Yes*	□No	*If Yes, skip to Question 12.



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B. Industrial Wastewater Information (continued)

☐Yes	□ No*	If No, you must obtain either a permit or written approval from your local Sewer Authority to discharge BEFORE you can submit this application.
If you have a	permit, provide the followi	ing information, then skip to Question 12.
11a. Permit Numb	per	11b. Permit Expiration Date
If you have a v	written approval, provide t	the following information:
11c. Date of Appr	oval Letter	11d. Name of Person Who Signed the Letter
	ility currently classified as (See Appendix D in the Ir	a Categorical Industrial User (CIU) pursuant to Federal nstructions.)
☐ Yes	⊠ No*	*If No, skip to Section C.
12a. List all the	e Categorical Pretreatmer	nt Standards applicable to your facility.
2a1. Part Numbe	r	Point Source Category
2a2. Part Numbe	r .	Point Source Category
2a3. Part Number	r	Point Source Category
2a4. Part Number	r .	Point Source Category
ndustrial	Wastewater Preti	reatment System
	an on-site industrial wast	iewater pretreatment system (IWPS) to treat your industrial
. Do you have		
Do you have vastewater?	□ No*	*If No, skip to Section D.
. Do you have vastewater? ☑ Yes	□ No* WPSs do you have?	*If No, skip to Section D.



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C. Industrial Wastewater Pretreatment System (continued)

1c. What is the To	tal Design Capacity of this	IWPS?
90,000	tal Boolgii Gapaony or ano	
Gallons Per Day		
1d. What is the Av	erage Daily Flow of this IP	WS? (Estimate if this is a new facility.)
32,900 (12 month	period from 11/2006-10/20	007 for outfall C01)
	aximum Daily Flow of this I	WPS? (Estimate if this is a new facility.)
	period from 11/2006-10/20	
		meet all local discharge standards and the applicable n 40 CFR Chapter I, Subchapter N?
⊠ Yes	□ No*	*If No, you must take immediate steps to address the non-compliance BEFORE you can submit this application.
3. Does this IWPS as defined in 314 (wastewater or hazardous industrial wastewater sludge
⊠Yes	□ No*	*If No, skip to Question 12.
3a. Are you treating products?	g concentrated chemical ba	aths, e.g. spent chemical baths, or off-specification
⊠Yes	□ No*	*If No, skip to Question 4.
3b. If Yes, describe	the concentrated chemica	al baths you are treating.
The waste chemistry a	ssociated with circuit board te	chnology
	•	
	meet the requirements of in 310 CMR 30.010?	"treatment which is an integral part of the manufacturing
⊠ Yes*	□No	*If Yes, skip to Question 7.
		er or hazardous industrial wastewater sludge that is processes, in tanks or containers?
located in a Drinking V	Vater Zone (see Section 17C	ardous industrial wastewater or sludge and your IWPS is of the Instructions; reference language in 310 CMR 30.605), VP IW 39 permit. You must use form BWP IW 40 instead.
☐Yes	□ No*	*If No, skip to Question 7.



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C. Industrial Wastewater Pretreatment System (continued)

	ompliance with the req ction 17C in the Instruc	uirements for tanks and containers in 310 CMR 30.342 and tions)
Yes	□ No*	*If No, you must take immediate steps to address the non-compliance BEFORE you can submit this application.
7. Do you have identification no		Protection Agency (EPA) hazardous waste generator
⊠ Yes	□ No*	*If No, skip to Question 7b.
7a. What is yoເ	ur EPA identification nu	imber?
MAD 00084449 EPA ID#	98	Skip to Question 8.
7b. Explain why	y you do not have an E	PA identification number.
		· .
	-	
8. Do you have	a visible sign in place	that warns against unauthorized entry into the IWPS area?
⊠ Yes*	□No	*If Yes, skip to Question 9.
8a. Explain why	you do not have a vis	ible sign in place.
·		nment for the IWPS? (See Section 17C in the Instructions.)
∑ Yes*	∏ No	*If Yes, skip to Question 10.
	· . —	
9a. Explain wny	you do not have the re	equired spill containment.
10. Is your IWPS Instructions.)	located on land subje	ct to flooding from a 100-year storm? (See Section 17C in the
☐Yes	⊠ No* (See Attac	:hment C) *If No. skip to Question 12.



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C. Industrial Wastewater Pretreatment System (continued)

11. Are you in o		h the flood-proo	fing provisions in 310	CMR 30.701(2)? (S	ee Section
☐Yes	□ No*	·	*If Yes, skip to Ques	stion 12.	
11a. Explain w	ny you are not	in compliance w	ith the flood-proofing	provisions in 310 Cl	MR 30.701(2).
<u> </u>					
<u> </u>			-		
12. What type o	of IWPS do you	have? (Check	all that apply.)		
☐ Fully Automa	ated Industrial	Wastewater Pre	treatment System (FA	JWPS)	
⊠ Continuous [Discharge IWP	S	☐ Batch IWPS		÷
13. Is the IWPS	exempt from o	classification? (S	See Section 17C in the	e Instructions.)	
☐ Yes*	⊠ No		*If Yes, skip to Ques	tion 14.	
13a. What is the Treatment Facil		of this IWPS? (See 257 CMR 2.13: C	lassification of Was	tewater
☐ Class 1I		☐ Class 2I		☐ Class 31	
⊠ Class 4I		☐ Class 5 or 6	С	☐ Class 1M	·
☐ Class 2M		☐ Class 3M		☐ Class 4M	-
13b. How was th	ne IWPS' class	ification determi	ined?		·
☐ In accordance	e with the requ	irements in 314	CMR 7.05(2)(g) 4. c.	or d.	
⊠ By the Board	of Certification	of Operators of	f Wastewater Treatme	ent Facilities	
Both					
14. Is the IWPS 17C in the Instru		rdance with the	requirements of 314	CMR 7.05(2)(g) 5? (See Section
⊠ Yes*	□No		*If Yes, skip to Quest	ion 15.	



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. Industria	l Wastewater Pre	etreatment System (continued)
14a. Explain v	vhy the IWPS is not staff	fed in accordance with 314 CMR 7.05(2)(g) 5.
· · · · · · · · · · · · · · · · · · ·		
	·	
15. Is this you IWPS? Or, is or BWP IW 39	this application a reques	under Permit Category BWP IW 38 or BWP IW 39 for this st for modification of this IWPS that currently has a BWP IW 3
⊠ Yes*	□No	*If Yes, you need to submit as an attachment the proces flow diagram and description of the principal treatment processes for your IWPS. Otherwise, skip to Question 1
16. How many	attachments are include	ed with this application in response to Question 15?
2: See Attachn		
Number of Attachr	nents	
17. Have your design and cor	sewer connection and IV	WPS been designed and constructed in compliance with the set forth in 314 CMR 7.05(2)(g)3?
⊠Yes	□ No*	*If No, skip to Question 17b.
		ered Professional Engineer (MAPE) signature date on the
engineering pla	•	Skip to Question 18.
January 1, 200 Date	<u>8</u> .	Skip to Question To.
	hu vour composiio	n and IWPS have not been designed and constructed in
		action standards as set forth in 314 CMR 7.05(2)(g)3.
	•	
-		
		out the Massachusetts Registered Professional Engineer gned your engineering plans:
Christopher A. \	N/alton	(781) 273-2500
18a. Name	redicori	18b. Phone Number
39510		Civil
18c. Mass. P.E. Lice	ense Number	18d, Mass. P.E. Specialty



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	ustilai Sewei Osei	Facility ID# (IT Known)
. Industria	l Wastewater Pr	etreatment System (continued)
	ave an IWPS operation a ments in 314 CMR 7.05(and maintenance manual that complies with the procedures and (2)(g)6.?
⊠ Yes*	☐ No	*If Yes, skip to Question 20.
19a. Explain v		e required IWPS operation and maintenance manual.
20. Are you ke	eeping your IWPS opera	ation and maintenance manual current?
⊠ Yes	□ No	
21. Are you in	plementing your IWPS	operation and maintenance manual?
⊠Yes	□No	
	g, Reporting & I	· · · · · · · · · · · · · · · · · · ·
 Are you kee operation and 	ping your currently effe maintenance manual(s)	ctive sewer discharge permit(s), IWPS plan(s), and current (as applicable) on-site at all times?
⊠ Yes*	□ No	* If Yes, skip to Question 2.
1a. Explain wh		hese records on-site at all times.
records, opera	tion and maintenance rementation of the safety	ecords including your wastewater monitoring and analyses ecords and logs, bills of lading, summary reports of all incidents plan, and hazardous waste manifests (as applicable) on-site fo
records, opera requiring imple	tion and maintenance rementation of the safety	ecords including your wastewater monitoring and analyses ecords and logs, bills of lading, summary reports of all incidents plan, and hazardous waste manifests (as applicable) on-site fo * If Yes, skip to Question 3.



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D. Monitoring, Reporting & Recordkeeping (continued)

3. [Reserved for Toxics Reporting]

Additional reporting requirements will be added to this section in the future.

E. General & Specific Prohibitions

compliance with the	se General and Sp	Decine Promotions?
⊠ Yes*	□ No	*If Yes, read Section F and then complete Section G.
1a. Identify all the pr sheet of paper to this		not in compliance with and explain why. Attach an additional
•		
may: i. harm th ii. have a iii. otherw b. Introduce pollut performance. c. Discharge wast	ause to be dischard e sewers, POTW w n adverse impact o ise create a nuisan ants into POTWs th	ged to a POTW, any substances, materials, or wastewater that wastewater treatment process or equipment; on the receiving waters; or nce or endanger public health, safety, or the environment. hat pass through the POTW or interfere with its operation or charge of wastewater through any sewer connection that would

1. After carefully reviewing all of the general and specific prohibitions listed below, are you in

e. Discharge hazardous waste or allow the discharge of hazardous waste through any sewer connection.

construed as permission by the Department or POTW to discharge bypass wastewater.

d. Discharge bypass wastewater or allow discharge of bypass wastewater through any sewer connection. If bypassing due to an emergency condition occurs, the Department and POTW shall be notified in accordance with 314 CMR 7.04(3). Such notification or its acknowledgement shall not be

- **2. Specific Prohibitions.** The permittee shall not introduce into a POTW or its wastewater collection system the following:
 - a. Pollutants which may create a fire, explosion, or other hazard in the POTW or its wastewater collection system.
 - b. Pollutants which may cause corrosive structural damage to the POTW or its wastewater collection system. In no case shall discharges with a pH lower than 5.0 Standard Unit (S.U) or more than 10.0 S.U. be allowed, unless the local limit allows such discharges.
 - c. Solid or viscous pollutants in amounts which may cause obstruction to the flow in the POTW or its wastewater collection system or may result in interference.
 - d. Any pollutant, including oxygen-demanding pollutants, discharged at a flow rate or pollutant concentration that will cause interference with the POTW or its wastewater collection system.
 - e. Heat in amounts which may inhibit biological activity in the POTW, resulting in interference. In no case shall heat in such quantities that the temperature at the POTW treatment plant exceeds 40° C (104° F) be discharged, unless the Department, upon request of the POTW, approves alternate temperature limits.



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F. Additional Conditions

a. All discharges shall be in compliance with the terms and conditions of this permit. The discharge of any wastewater at a level in excess of that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit. Such a violation may result in the imposition of civil and/or criminal penalties as provided for in M.G.L. c.21, Section 42.

b. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

i. Violation of any terms or conditions of the permit;

ii. Obtaining a permit by misrepresentation or failure to disclose fully all relevant facts; or iii. A change in conditions or the existence of a condition, which requires either a temporary or permanent reduction, or elimination of the authorized discharge.

c. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges; nor does it authorize or relieve the permittee of any liability for any injury to private property or any invasion of personal rights; nor any infringement of Federal, State, or local laws or regulations; nor does it waive the necessity of obtaining any local assent required by law for the discharge authorized herein by the Department.

d. The provisions of this permit are severable, and the invalidity of any condition or subdivision thereof

shall not make void any other condition or subdivision thereof.

- e. All information and data provided by an applicant or a permittee identifying the nature and frequency of a discharge shall be available to the public without restriction. All other information (other than effluent data) which may be submitted by an applicant in connection with a permit application shall also be available to the public unless the applicant or permittee is able to demonstrate that the disclosure of such information or particular part thereof to the general public would divulge methods or processes entitled to protection as trade secrets in accordance with the provisions of M.G.L. c.21, Section.27(7). Where the applicant or permittee is able to so demonstrate, the Department shall treat the information or the particular part (other than effluent data) as confidential and not release it to any unauthorized person. Such information may be divulged to other officers, employees, or authorized representatives of the Commonwealth or the United States Government concerned with the protection of public water or water supplies.
- f. Transfer of Permits. Any sewer system connection permit authorizing an industrial discharge to a sewer system is only valid for the person to whom it is issued, unless prior to transfer:
 - i. The current permittee notifies the Department in writing at least 30 days in advance of the proposed transfer date; and
 - ii. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibilities, and liability to the new permittee.
- g. This permit authorizing the discharge expires five (5) years from the date of issuance. The permittee shall apply for a renewal of this permit at least ninety (90) days prior to the expiration date, in accordance with 314 CMR 7.09(3)(b) for continued lawful discharges beyond the expiration date. h. All solids, sludge, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be collected, treated, and disposed of in accordance with applicable provisions in the following:
 - i. Hazardous waste regulations (310 CMR 30.000).
 - ii. Solid waste regulations (310 CMR 19.00).
 - iii. Sewer discharge regulations (314 CMR 7.00).
 - iv. Any other applicable federal, state and local laws.
- i. All samples shall be analyzed by a Massachusetts Certified Laboratory.
- j. The permittee shall provide the Department, and the Department's employees, authorized representatives and contractors, access at to the facility at all reasonable times, including during wastewater treatment system operation or wastewater discharge, for purposes of conducting activities related to oversight of this permit, including inspections to monitor compliance with the terms herein. The permittee shall allow the Department to obtain information related to compliance with the requirements of this permit. Notwithstanding any provision of this permit, the Department retains all of its access authorities and rights under applicable state and federal law.



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Facility ID# (if known)	

G. Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate, and complete. I certify that this facility is in compliance with all conditions and requirements of this permit, and all applicable statutes and regulations. I further certify that systems to maintain compliance are in place at the facility or unit and will be maintained even if processes or operating procedures are changed. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations."

(I will be responsible for publication of public notice of the applicable permit proceedings identified under 314 CMR 2.06(1)(a) through (d).)

Michael Guidoboni

MassDEP Use Only

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See Attachment 1.

This document is a permit issued pursuant to Massachusetts General Laws, Chapter 21, Section 43 and Massachusetts regulations at 314 CMR 7.00. The permittee shall comply with all of the provisions contained in the permit application which are hereby incorporated and made part of this permit.

4/4/08

Date Issued

Permit Effective Date

John F. KRUNO Polus

Name of Regional BWP Section Chief

4/4/13

(1.27)

Signature



Bureau of Waste Prevention – Industrial Wastewater

BWP IW 38 & BWP IW 39

Permit for Industrial Sewer User

W201133

Transmittal Number

130595

Facility ID# (if known)

ATTACHMENT 1.

Special Conditions:

- 1. The permittee shall maintain compliance with the City of Marlborough's sewer use requirements and the terms and conditions of any applicable wastewater discharge permits issued by the Marlborough Westerly Wastewater Treatment Plant.
- 2. The documents and materials attached to and referenced in the permit application are incorporated as part of the permit.



Bureau of Waste Prevention – Industrial Wastewater

Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W201133	
Transmittal Number	
130595	
Facility ID# (if known)	
Permit Code	

Instructions: Submit a completed copy of this form for each additional Industrial Wastewater Pretreatment System (IWPS) not identified on your BWP IW 38/BWP IW 39 permit application.

Industrial Wastewater Pretreatment System (IWPS) Information

		e identical with those on the BWP IW 38/BWP IW 39 permit application on forms. Questions 1 and 1a have been intentionally omitted.
1b. Please pro	ovide a unique identifier	(i.e. name) for this IWPS:
	ment System - Outfall N	S02
Identifier/Name		
1c. What is th	e Total Design Capacity	of this IWPS?
4,300		
Gallons Per Day		
1d. What is the	e Average Daily Flow of	this IPWS? (Estimate if this is a new facility.)
200		
Gallons Per Day		
1e. What is the	e Maximum Daily Flow o	of this IWPS? (Estimate if this is a new facility.)
258		
Gallons Per Day		
		cted to meet all local discharge standards and the applicable dards in 40 CFR Chapter I, Subchapter N?
⊠Yes	□ No*	*If No, you must take immediate steps to address the non- compliance BEFORE you can submit this application.
3. Does this IV as defined in 3		ustrial wastewater or hazardous industrial wastewater sludge
☐ Yes	⊠ No*	*If No, skip to Question 12.
3a. Are you treproducts?	ating concentrated cher	nical baths, e.g. spent chemical baths, or off-specification
☐Yes	⊠ No*	*If No, skip to Question 4.
3b. If Yes, desc	cribe the concentrated c	hemical baths you are treating:



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W201133	*.
Transmittal Number	
130595	
Facility ID# (if known)	
Permit Code	

	·	Permit Code
WPS Infori	mation (continued)	
	r IWPS meet the requirem defined in 310 CMR 30.01	nents of "treatment which is an integral part of the manufacturin 10?
⊠ Yes*	☐ No	*If Yes, skip to Question 7.
		astewater or hazardous industrial wastewater sludge that is duction processes and stored in tanks or containers?
located in a Dr	rinking Water Zone (see Sec	e of hazardous industrial wastewater or sludge and your IWPS is tion 17C of the Instructions; reference language in 310 CMR 30.605), 38 or BWP IW 39 permit. You must use form BWP IW 40 instead.
☐Yes	☐ No*	*If No, skip to Question 7.
	compliance with the requection 17C in the Instruction	irements for tanks and containers in 310 CMR 30.342 and ons)
□Yes	□ No*	*If No, you must take immediate steps to address the non- compliance BEFORE you can submit this application.
7. Do you hav	ve a U.S. Environmental F number?	Protection Agency (EPA) hazardous waste generator
Yes	□ No*	*If No, skip to Question 7b.
7a. What is yo	our EPA identification nun	nber?
MAD 0008444	198	Skip to Question 8.
7b. Explain wh	hy you do not have an EP	A identification number.
		· · · · · · · · · · · · · · · · · · ·
8. Do you have	e a visible sign in place th	at warns against unauthorized entry into the IWPS area?
⊠ Yes*	□No	*If Yes, skip to Question 9.
8a. Explain wh	y you do not have a visib	le sign in place.



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W201133	
Transmittal Number	
130595	
Facility ID# (if known)	
Permit Code	-

			Permit Code
Additional IV	/PS Information	n (continued)	
9.Do you have	the required spill con	tainment for the IWPS?	(See Section 17C in the Instructions.)
⊠ Yes*	□No	*If Yes, skip	to Question 10.
9a. Explain why	you do not have the	required spill containm	ent.
•			
· · · · · · · · · · · · · · · · · · ·			
10. Is your IWP Instructions.)	•		100-year storm? (See Section 17C in the
☐Yes	⊠ No*	*If No, skip t	o Question 12.
11. Are you in co		ood-proofing provisions	in 310 CMR 30.701(2)? (See Section
☐ Yes*	□ No	*If Yes, skip	to Question 12.
11a. Explain wh	y you are not in comp	·	oofing provisions in 310 CMR 30.701(2).
12 What tung of		(Check all that apply)	
		(Check all that apply.)	(FARAIDO)
. "		vater Pretreatment Syste	
☑ Continuous D	ischarge IWPS	⊠ Batch IW	PS
13. Is the IWPS	exempt from classific	ation? (See Section 170	C in the Instructions.)
☐ Yes*	⊠ No	*If Yes, skip t	o Question 14.
13a. What is the Treatment Facilit		WPS? (See 257 CMR 2	2.13: Classification of Wastewater
Class 1I	⊠ Clas	ss 21	☐ Class 3I
☐ Class 4I	☐ Clas	ss 5 or 6C	☐ Class 1M

☐ Class 3M

☐ Class 2M

☐ Class 4M



Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W201133	
Transmittal Number	
130595	
Facility ID# (if known)	
Pormit Codo	_

Additional IWPS Information (continued)

13b. How wa	s the IWPS' classification	n determined?
☐ 13b1. In a	ccordance with the requi	irements in 314 CMR 7.05(2)(g) 4. c. or d.
⊠ 13b2. By ti	he Board of Certification	of Operators of Wastewater Treatment Facilities
☐ 13b3. Both)	
14. Is the IWF 17C in the Ins		with the requirements of 314 CMR 7.05(2)(g) 5? (See Section
⊠ Yes*	□No	*If Yes, skip to Question 15.
14a. Explain v	why the IWPS is not staf	fed in accordance with 314 CMR 7.05(2)(g) 5.
IWPS? Or, is or BWP IW 39	this application a request permit?	under Permit Category BWP IW 38 or BWP IW 39 for the st for modification of the IWPS that currently has a BWP IW 38
⊠ Yes*	□No	*If Yes, you need to submit as an attachment the process flow diagram and description of the principal treatment processes for your IWPS.
16. How many	attachments are include	ed with this application in response to Question 15?
2: See Attachn Number of Attachr		
		WPS been designed and constructed in compliance with the set forth in 314 CMR 7.05(2)(g)3?
⊠ Yes	□ No*	*If No, skip to Question 17b.
17a. What is th engineering pla		ered Professional Engineer (MAPE) signature date on the
1-4-08 Date	·	Skip to Question 18.





Additional IWPS Form Use With BWP IW 38 & BWP IW 39

W201133	
Transmittal Number	
130595	
Facility ID# (if known)	
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17b. Explain w	hy your sewer connections the design and constructions.	on and IWPS have not been designed and constructed in uction standards as set forth in 314 CMR 7.05(2)(g)3.
,	J	
18. Provide the stamped, and s	name of the Massachu igned your engineering	setts Registered Professional Engineer (MAPE) who reviewe plans:
Christopher A.	Malton	(781) 273-2500
18a. Name	y valtori	18b. Phone Number
39510	•	Civil
18c. Mass. P.E. Lic	ense Number	18d, Mass. P.E. Specialty
⊠ Yes*	□No	*If Yes, skip to Question 20.
19a. Explain wh	y you do not have an IV	WPS operation and maintenance manual.
		:
20. Are you kee	ping your IWPS operation	on and maintenance manual current?
√ V	□ No	
⊠ Yes	. 🗀 🚻	
		peration and maintenance plan manual?



Bureau of Waste Prevention – Industrial Wastewater

Toxic Pollutants Form Use With BWP IW 38 & BWP IW 39

W201133
Transmittal Number
130595 — Main Pretreat
Facility ID# (if known)

Permit Code

Instructions: For the following groups of pollutants, check all that you know to be present in your industrial wastewater before pretreatment, and provide concentrations for the specific pollutants in the checked group(s).

For all Volatile Organic Compounds (VOCs), provide concentrations in micrograms per liter (ug/L):

101. acrolein Below Detection Limit (BDL) ug/L 102. acrylonitrile BDL ug/L 103. benzene BDL ug/L 104. bis (chloromethyl) ether BDL ug/L 105. bromoform BDL ug/L 106. carbon tetrachloride BDL ug/L 107. chlorobenzene BDL ug/L 108. chlorodibromomethane BDL ug/L 109. chloroethane BDL ug/L 110. 2-chloroethylvinyl ether BDL ug/L 111. chloroform BDL ug/L 112. dichlorobromomethane BDL ug/L 113. dichlorodifluoromethane BDL ug/L 114. 1,1-dichloroethane BDL ug/L 115. 1,2-dichloroethane BDL ug/L 117. 1,2-dichloropropane BDL ug/L 118. 1,2-dichloropropylene BDL ug/L 119. ethylbenzene BDL ug/L 120. methyl bromide BDL ug/L BDL	Pollutant Name	Concentration
102. acrylonitrile	101. acrolein	Below Detection Limit (BDL)
103. benzene		ug/L
103. benzene	102. acrylonitrile	
104. bis (chloromethyl) ether	·	
104. bis (chloromethyl) ether BDL ug/l. 105. bromoform BDL ug/l. 106. carbon tetrachloride BDL ug/l. 107. chlorobenzene BDL ug/l. 108. chlorodibromomethane BDL ug/l. 109. chloroethane BDL ug/l. 110. 2-chloroethylvinyl ether BDL ug/l. 111. chloroform BDL ug/l. 112. dichlorobromomethane BDL ug/l. 113. dichlorodifluoromethane BDL ug/l. 114. 1,1-dichloroethane BDL ug/l. 115. 1,2-dichloroethane BDL ug/l. 116. 1,1-dichloroethylene BDL ug/l. 117. 1,2-dichloropropane BDL ug/l. 118. 1,2-dichloropropylene BDL ug/l. 119. ethylbenzene BDL ug/l. 120. methyl bromide BDL ug/l. 120. methyl bromide BDL ug/l. 121. methyl chloride BDL ug/l. 122. methyl chloride BDL ug/l. 123. methyl chloride BDL ug/l. 124. methyl chloride BDL ug/l. 125. methyl chloride BDL ug/l. 126. methyl chloride BDL ug/l. 127. methyl chloride BDL ug/l. 128. methyl chloride BDL ug/l. 129. methyl chloride BDL ug/l. 121. methyl chloride BDL ug/l. 122. methyl chloride BDL ug/l. 123. methyl chloride BDL ug/l. 124. methyl chloride BDL ug/l. 125. methyl chloride BDL ug/l. 126. methyl chloride BDL ug/l. 127. methyl chloride BDL ug/l. 128. methyl chloride BDL ug/l. 129. methyl chloride BDL ug/l. 120. methyl chloride BDL ug/l. 120. methyl chloride BDL ug/l. 121. methyl chloride BDL ug/l. 122. methyl chloride BDL ug/l. 123. methyl chloride BDL ug/l. 124. methyl chloride BDL ug/l. 125. methyl chloride BDL ug/l. 126. methyl chloride BDL ug/l. 127. methyl chloride BDL ug/l. 128. methyl chloride BDL ug/l. 129. methyl chloride BDL ug/l. 120. methyl ch	103. benzene	
105. bromoform		-
105. bromoform BDL ug/L	104. bis (chloromethyl) ether	
106. carbon tetrachloride BDL ug/L 107. chlorobenzene BDL ug/L 108. chlorodibromomethane BDL ug/L 109. chloroethane BDL ug/L 110. 2-chloroethylvinyl ether BDL ug/L 111. chloroform BDL ug/L 112. dichlorobromomethane BDL ug/L 113. dichlorodifluoromethane BDL ug/L 114. 1,1-dichloroethane BDL ug/L 115. 1,2-dichloroethane BDL ug/L 116. 1,1-dichloroethylene BDL ug/L 117. 1,2-dichloropropane BDL ug/L 118. 1,2-dichloropropane BDL ug/L 119. ethylbenzene BDL ug/L BDL	105 has as of succession	
106. carbon tetrachloride 107. chlorobenzene BDL ug/L 108. chlorodibromomethane BDL ug/L 109. chloroethane BDL ug/L 110. 2-chloroethylvinyl ether BDL ug/L 111. chloroform BDL ug/L 112. dichlorobromomethane BDL ug/L 113. dichlorodifluoromethane BDL ug/L 114. 1,1-dichloroethane BDL ug/L 115. 1,2-dichloroethane BDL ug/L 116. 1,1-dichloroethylene BDL ug/L 117. 1,2-dichloropropane BDL ug/L 118. 1,2-dichloropropylene BDL ug/L 119. ethylbenzene BDL ug/L 120. methyl bromide BDL ug/L BDL	105. promotorm	
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107. chlorobenzene BDL ug/L 108. chlorodibromomethane BDL ug/L 110. 2-chloroethylvinyl ether BDL ug/L 111. chloroform BDL ug/L 112. dichlorobromomethane BDL ug/L 113. dichlorodifluoromethane BDL ug/L 114. 1,1-dichloroethane BDL ug/L 115. 1,2-dichloroethane BDL ug/L 116. 1,1-dichloropropane BDL ug/L 117. 1,2-dichloropropane BDL ug/L 118. 1,2-dichloropropylene BDL ug/L 119. ethylbenzene BDL ug/L 120. methyl bromide BDL ug/L BDL	100. Carbon tetrachionde	
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108. chlorodibromomethane BDL 109. chloroethane BDL 110. 2-chloroethylvinyl ether BDL 111. chloroform BDL 112. dichlorobromomethane BDL 113. dichlorodifluoromethane BDL 114. 1,1-dichloroethane BDL 115. 1,2-dichloroethane BDL 116. 1,1-dichloroethylene BDL 117. 1,2-dichloropropane BDL 118. 1,2-dichloropropylene BDL 119. ethylbenzene BDL 120. methyl bromide BDL 121. methyl chloride BDL 121. methyl chloride BDL	TOT: GINOTOBORIZONO	
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109. chloroethane		
110. 2-chloroethylvinyl ether	109. chloroethane	
111. chloroform	•	
BDL ug/L 112. dichlorobromomethane BDL ug/L 113. dichlorodifluoromethane BDL ug/L 114. 1,1-dichloroethane BDL ug/L 115. 1,2-dichloroethylene BDL ug/L 117. 1,2-dichloropropane BDL ug/L 118. 1,2-dichloropropylene BDL ug/L 119. ethylbenzene BDL ug/L 120. methyl bromide BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL	110. 2-chloroethylvinyl ether	BDL
112. dichlorobromomethane BDL 113. dichlorodifluoromethane BDL 114. 1,1-dichloroethane BDL 115. 1,2-dichloroethane BDL 116. 1,1-dichloroethylene BDL 117. 1,2-dichloropropane BDL 118. 1,2-dichloropropylene BDL 119. ethylbenzene BDL 120. methyl bromide BDL 121. methyl chloride BDL		ug/L
112. dichlorobromomethane BDL 113. dichlorodifluoromethane BDL 114. 1,1-dichloroethane BDL 115. 1,2-dichloroethane BDL 116. 1,1-dichloroethylene BDL 117. 1,2-dichloropropane BDL 118. 1,2-dichloropropylene BDL 119. ethylbenzene BDL 120. methyl bromide BDL 121. methyl chloride BDL	111. chloroform	BDL
113. dichlorodifluoromethane BDL 114. 1,1-dichloroethane BDL 115. 1,2-dichloroethane BDL 116. 1,1-dichloroethylene BDL 117. 1,2-dichloropropane BDL 118. 1,2-dichloropropylene BDL 119. ethylbenzene BDL 120. methyl bromide BDL 121. methyl chloride BDL		ug/L
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115. 1,2-dichloroethane BDL ug/L 116. 1,1-dichloroethylene BDL ug/L 117. 1,2-dichloropropane BDL ug/L 118. 1,2-dichloropropylene BDL ug/L 119. ethylbenzene BDL ug/L 120. methyl bromide BDL ug/L 121. methyl chloride BDL BDL BDL		
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116. 1,1-dichloroethylene BDL ug/L 117. 1,2-dichloropropane BDL ug/L 118. 1,2-dichloropropylene BDL ug/L 119. ethylbenzene BDL ug/L 120. methyl bromide BDL ug/L 121. methyl chloride BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	445 4.0 -1:-1:	
BDL ug/L 117. 1,2-dichloropropane BDL ug/L 118. 1,2-dichloropropylene BDL ug/L 119. ethylbenzene BDL ug/L 120. methyl bromide BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL ug/L BDL	115. 1,2-dichioroethane	······································
117. 1,2-dichloropropane BDL ug/L 118. 1,2-dichloropropylene BDL ug/L 119. ethylbenzene BDL ug/L 120. methyl bromide BDL ug/L 121. methyl chloride BDL 121. methyl chloride BDL	116 1.1 dishlaraethylana	•
BDL ug/L 118. 1,2-dichloropropylene BDL ug/L 119. ethylbenzene BDL ug/L 120. methyl bromide BDL ug/L 121. methyl chloride BDL	rro. 1, 1-dictioroethylene	
118. 1,2-dichloropropylene BDL	117 1 2-dichloropropage	
BDL ug/L 119. ethylbenzene BDL 120. methyl bromide BDL 121. methyl chloride BDL BDL BDL BDL BDL BDL BDL	177. 1,2-dictiloroproparte	
119. ethylbenzene BDL ug/L 120. methyl bromide BDL ug/L 121. methyl chloride BDL	118 1 2-dichloropropylene	
119. ethylbenzene BDL ug/L 120. methyl bromide BDL ug/L 121. methyl chloride BDL	7 TOT 7/2 district op Top Jones	
120. methyl bromide BDL ug/L 121. methyl chloride BDL	119. ethylbenzene	
ug/L 121. methyl chloride BDL		· · · · · · · · · · · · · · · · · · ·
ug/L 121. methyl chloride BDL	120. methyl bromide	· · · · · · · · · · · · · · · · · · ·
ug/L	121. methyl chloride	BDL
		ug/L





Toxic Pollutants Form Use With BWP IW 38 & BWP IW 39

W201133 Transmittal Number 130595 - Main Pretreat Facility ID# (if known)

Permit Code

100. Volatiles (continued)	
Pollutant Name	Concentration
122, methylene chloride	BDL
	ug/L
123. 1,1,2,2-tetrachloroethane	BDL
	ug/L
124. tetrachloroethylene	BDL
•	ug/L
125. toluene	BDL
	ug/L
126. 1,2-trans-dichloroethylene	BDL
,	ug/L
127. 1,1,1-trichloroethane	BDL
	ug/L
128. 1,1,2-trichloroethane	BDL
	ug/L
129. trichloroethylene	BDL
•	ug/L
130. trichlorofluoromethane	BDL
	ug/L
131. vinyl chloride	BDL
	nall

⋈ 200. Acid Compounds

For all Acid Compounds, provide concentrations in micrograms per liter (ug/L):

Pollutant Name	Concentration
201. 2-chlorophenol	BDL
	ug/L
202. 2,4-dichlorophenol	BDL
	ug/L
203. 2,4-dimethylphenol	BDL
•	ug/L
204. 4,6-dinitro-o-cresol	BDL
	ug/L
205. 2,4-dinitrophenol	BDL
	ug/L
206. 2-nitrophenol	BDL
	ug/L
207. 4-nitrophenol	BDL
	ug/L
208. p-chloro-m-cresol	BDL
	ug/L
209. pentachlorophenol	BDL
	ug/L
210. phenol	BDL.
	ug/L
211. 2,4,6-trichlorophenol	BDL
	ug/L





Toxic Pollutants Form Use With BWP IW 38 & BWP IW 39

W201133	
Transmittal Number	
130595 - Main Pretre	at
Facility ID# (if known)	

Permit Code

For all Base/Neutral Compounds, provide concentrations in micrograms per liter (ug/L):

Pollutant Name	Concentration
301. acenaphthene	BDL
	ug/L
302. acenaphthylene	BDL
	ug/L
303. anthracene	BDL
	ug/L
304. benzidine	BDL
	ug/L
305. benzo(a)anthracene	BDL
	ug/L
306. benzo(a)pyrene	BDL
	ug/L
307. 3,4-benzofluoranthene	BDL
	ug/L
308. benzo(ghi)perylene	BDL
	ug/L
309. benzo(k)fluoranthene	BDL
540 11 /0 / I	ug/L
310. bis(2-chloroethoxy)methane	BDL
244 55-72 -55 11 15 11	ug/L
311. bis(2-chloroethyl)ether	BDL
242 his/2 shiproisessess() -th	ug/L
312. bis(2-chloroisopropyl)ether	BDL
313. bis(2-ethylhexyl)phthalate	ug/L
575. bis(2-etilyinexyi)phthalate	BDL ug/L
314. 4-bromophenyl phenyl ether	BDL
714. 4 bromophenyi pitenyi ether	ug/L
315. butylbenzyl phthalate	BDL
vo. satylosiizyi philialato	ug/L
16. 2-chloronaphthalene	BDL
	ug/L
17. 4-chlorophenyl phenyl ether	BDL.
· · · · · · · · · · · · · · · · · · ·	ug/L
18. chrysene	BDL
	ug/L
19. dibenzo(a,h)anthracene	BDL
	ug/L
20. 1,2-dichlorobenzene	BDL
	ug/L
21. 1,3-dichlorobenzene	BDL
	ug/L
22. 1,4-dichlorobenzene	BDL
	ug/L
23. 3,3'-dichlorobenzidine	BDL
•	ug/L



Toxic Pollutants Form Use With BWP IW 38 & BWP IW 39

W201133 Transmittal Number

130595 - Main Pretreat Facility ID# (if known)

Permit Code

300. Base/Neutral Compounds (continued)	
Pollutant Name	Concentration
324. diethyl phthalate	BDL
	ug/L
325. dimethyl phthalate	BDL
	ug/L
326. di-n-butyl phthalate	BDL
	ug/L
327. 2,4-dinitrotoluene	BDL
	ug/L
328. 2,6-dinitrotoluene	BDL
A COO III a call tack the state	ug/L
329. di-n-octyl phthalate	BDL
200 4 O distancibility of a small summer.	ug/L
330. 1,2-diphenylhydrazine (as azobenzene)	BDL ug/L
331. fluoranthene	BDL
551. Ildorantilene	ug/L
332. fluorine	BDL
552. Huorine	ug/L
333, hexachlorobenzene	BDL
555. Hexacilioropenzene	ug/L
334, hexachlorobutadiene	BDL BDL
554. Hexaciliolopuladiene	ug/L
335. hexachlorocyclopentadiene	BDL
300. Hexacillorocyclopentadiene	ug/L
336. hexachloroethane	BDL
GGG. HOXAGANGIGGUANG	ug/L
337. indeno(1,2,3-cd)pyrene	BDL
7,7	ug/L
338. isophorone	BDL
	ug/L
339. naphthalene	BDL
	ug/L
340. nitrobenzene	BDL
•	ug/L
341. N-nitrosodimethylamine	BDL
	ug/L,
342. N-nitrosodi-n-propylamine	BDL
	ug/L
343. N-nitrosodiphenylamine	BDL
•	ug/L
344. phenanthrene	BDL
	ug/L
345. pyrene	BDL
	ug/L
346. 1,2,4-trichlorobenzene	BDL
	ug/L





Toxic Pollutants Form Use With BWP IW 38 & BWP IW 39

W201133 Transmittal Number 130595 - Main Pretreat Facility ID# (if known)

Permit Code

For all Pesticides, provide concentrations in micrograms per liter (ug/L):

Pollutant Name	Concentration
401. aldrin	0.111
	ug/L
402. alpha-BHC	BDL
403. beta-BHC	ug/L BDL
400. Deta-DHC	ug/L
404. gamma-BHC	BDL
	ug/L
405. delta-BHC	BDL
	ug/L
406. chlordane	BDL
407. 4,4'-DDT	ug/L BDL
407: 4,4-001	ug/L
408. 4,4'-DDE	BDL
	ug/L
409. 4,4'-DDD	BDL
	ug/L
410. dieldrin	BDL
444 alaka audazuten	ug/L
411. alpha-endosulfan	BDL ug/L
412. beta-endosulfan	BDL
772. Bota ortabounari	ug/L
413. endosulfan sulfate	BDL
	ug/L
414. endrin	BDL
	ug/L
415. endrin aldehyde	BDL ug/L
416. heptachlor	BDL
Tro. Hoptaoriioi	ug/L
417. heptachlor epoxide	BDL
	ug/L
418. PCB-1242	BDL
ua papuat.	ug/L
419. PCB-1254	BDL
420. PCB-1221	ug/L BDL
74V. 1 VD-1221	ug/L
421. PCB-1232	BDL.
	ug/L
422. PCB-1248	BDL
:	ug/L
423. PCB-1260	BDL
	ug/L



Bureau of Waste Prevention – Industrial Wastewater

Toxic Pollutants Form Use With BWP IW 38 & BWP IW 39

W201133
Transmittal Number
130595 - Main Pretreat
Facility ID# (if known)

Permit Code

400. Pesticides	
Pollutant Name	Concentration
424. PCB-1016	BDL
	ug/L
425. toxaphene	BDL
	ug/L
500. Total Toxic Pollutants*	0.111 [1]
	ug/L

^{*}Use this total in your answer to Question 6b in Section B of the BWP IW 38 & BWP IW 39 Permit for Industrial Sewer User application

[1] Sampling data from combined outfall S01 and CO1 (Refer to Attachment A)



Bureau of Waste Prevention – Industrial Wastewater

Toxic Pollutants Form Use With BWP IW 38 & BWP IW 39

W201133
Transmittal Number
130595 – ATC Pretreat
Facility ID# (if known)

Permit Code	Р	er	m	i	C	od	е
-------------	---	----	---	---	---	----	---

Instructions: For the following groups of pollutants, check all that you know to be present in your industrial wastewater before pretreatment, and provide concentrations for the specific pollutants in the checked group(s).

For all Volatile Organic Compounds (VOCs), provide concentrations in micrograms per liter (ug/L):

Pollutant Name	Concentration
101. acrolein	Below Detection Limit (BDL)
	ug/L
102. acrylonitrile	BDL
103. benzene	ug/L
100. Delizerie	BDL ug/L
104. bis (chloromethyl) ether	BDL
· · · · · · · · · · · · · · · · · · ·	ug/L
105. bromoform	2.5
	ug/L
106. carbon tetrachloride	BDL
	ug/L
107. chlorobenzene	BDL
108. chlorodibromomethane	ug/L
108. chlorodibromomethane	4.6 ug/L
109. chloroethane	BDŁ
100. Chorocularie	ug/L
110. 2-chloroethylvinyl ether	BDL
· · · · · · · · · · · · · · · · · · ·	ug/L
111. chloroform	3.8
•	ug/L
112. dichlorobromomethane	5.6
	ug/L
113. dichlorodifluoromethane	BDL
114. 1,1-dichloroethane	ug/L
114. 1, 1-dichiolognane	BDL ug/L
115. 1,2-dichloroethane	BDL
	ug/L
116. 1,1-dichloroethylene	BDL
•	ug/L
117. 1,2-dichloropropane	BDL_
	ug/L
118. 1,2-dichloropropylene	BDL
110 othydbonese	ug/L
119. ethylbenzene	BDL
120. methyl bromide	ug/L BDL
120. Monty biomado	ug/L
121. methyl chloride	BDL
	ug/L



Bureau of Waste Prevention – Industrial Wastewater

Toxic Pollutants Form Use With BWP IW 38 & BWP IW 39

W201133
Transmittal Number
130595 – ATC Pretreat
Facility ID# (if known)

Permit Code

100. Volatiles (continued)	
Pollutant Name	Concentration
122. methylene chloride	BDL
	ug/L
123. 1,1,2,2-tetrachloroethane	BDL
	ug/L
124. tetrachloroethylene	BDL
	ug/L
125. toluene	BDL
	ug/L
126. 1,2-trans-dichloroethylene	BDL
	ug/L
127. 1,1,1-trichloroethane	BDL
	ug/L
128. 1,1,2-trichloroethane	BDL
400 4111 41 41	ug/L
129. trichloroethylene	BDL
400 1:13 - 9	ug/L
130. trichlorofluoromethane	BDL
121 visul ablarida	ug/L
131. vinyl chloride	BDL

ug/L

⋈ 200. Acid Compounds

For all Acid Compounds, provide concentrations in micrograms per liter (ug/L):

Pollutant Name	Concentration
201. 2-chlorophenol	BDL
	ug/L
202. 2,4-dichlorophenol	BDL
•	ug/L
203. 2,4-dimethylphenol	BDL
	ug/L
204. 4,6-dinitro-o-cresol	BDL
	ug/L
205. 2,4-dinitrophenol	BDL
	ug/L
206. 2-nitrophenol	BDL
	ug/L
207. 4-nitrophenol	BDL
•	ug/L
208. p-chloro-m-cresol	BDL
	ug/L
209, pentachlorophenol	BDL
	ug/L
210. phenol	BDL
•	ug/L
211. 2,4,6-trichlorophenol	BDL
	ug/L



Bureau of Waste Prevention – Industrial Wastewater

Toxic Pollutants Form Use With BWP IW 38 & BWP IW 39

W201133
Transmittal Number
130595 – ATC Pretreat
Facility ID# (if known)

Permit Code

For all Base/Neutral Compounds, provide concentrations in micrograms per liter (ug/L):

Pollutant Name	Concentration
301. acenaphthene	BDL
200	ug/L
302. acenaphthylene	BDL
303. anthracene	BDL
	ug/L
304. benzidine	BDL ug/L
305. benzo(a)anthracene	BDL
550. Senzo(a)ananaone	ug/L
306. benzo(a)pyrene	BDL
007.041.0	ug/L
307. 3,4-benzofluoranthene	BDL ug/L
308. benzo(ghi)perylene	BDL
	ug/L
309. benzo(k)fluoranthene	BDL
OAO his (O als large the gray) and the gray	ug/L
310. bis(2-chloroethoxy)methane	BDL ug/L
311. bis(2-chloroethyl)ether	BDL
, , , , , , , , , , , , , , , , , , ,	ug/L
312. bis(2-chloroisopropyl)ether	BDL
313. bis(2-ethylhexyl)phthalate	ug/L BDL
313. bis(z-ethylnexy)/pritilalate	ug/L
314. 4-bromophenyl phenyl ether	BDL
	ug/L
315. butylbenzyl phthalate	BDL
316. 2-chloronaphthalene	ug/L BDL
010. 2-Griforonaphinalerie	ug/L
317. 4-chlorophenyl phenyl ether	BDL
	ug/L.
318. chrysene	BDL ug/L
319. dibenzo(a,h)anthracene	BDL
b To: dibonizo(a,n)animaosno	ug/L
320. 1,2-dichlorobenzene	BDL
	ug/L
321. 1,3-dichlorobenzene	BDL ug/L
322. 1,4-dichlorobenzene	BDL
	ug/t.
323. 3,3'-dichlorobenzidine	BDL.
	ug/L



Toxic Pollutants Form Use With BWP IW 38 & BWP IW 39

300. Base/Neutral Compounds (continued)

W201133

Transmittal Number

130595 - ATC Pretreat

Facility ID# (if known)

Permit Code

Pollutant Name	Concentration		
324. diethyl phthalate	BDL		
	ug/L		
325. dimethyl phthalate	BDL		
	ug/L		
326. di-n-butyl phthalate	BDL		
	ug/L		
327. 2,4-dinitrotoluene	BDL		
	ug/L		
328. 2,6-dinitrotoluene	BDL		
200	ug/L		
329. di-n-octyl phthalate	BDL ug/L		
220 1.2 diphopulhydrozino (ac azohonzana)	BDL		
330. 1,2-diphenylhydrazine (as azobenzene)	ug/L		
331. fluoranthene	BDL		
301, national and a second	ug/L.		
332. fluorine	BDL		
	ug/L		
333. hexachlorobenzene	BDL		
	ug/L		
334. hexachlorobutadiene	BDL		
	ug/L		
335. hexachlorocyclopentadiene	BDL		
	ug/L		
336. hexachloroethane	BDL		
	ug/L		
337. indeno(1,2,3-cd)pyrene	BDL		
220 insubserve	ug/L		
338. isophorone	BDL ug/L		
339. naphthalene	BDL		
559. Hapitulalene	ug/L		
340. nitrobenzene	BDL		
o to. This obstitution	ug/L		
341. N-nitrosodimethylamine	BDL		
	ug/L		
342. N-nitrosodi-n-propylamine	BDL		
	ug/L		
343. N-nitrosodiphenylamine	BDL		
	ug/L		
344. phenanthrene	BDL		
	ug/L		
345. pyrene	BDL		
	ug/L		
346. 1,2,4-trichlorobenzene	BDL		
	ua/L		



Toxic Pollutants Form Use With BWP IW 38 & BWP IW 39

W201133 Transmittal Number 130595 - ATC Pretreat Facility ID# (if known)

Permit Code

For all Pesticides, provide concentrations in micrograms per liter (ug/L):

Pollutant Name	Concentration	
401. aldrin	BDL	
	ug/L	
402. alpha-BHC	BDL ug/L	
403. beta-BHC	BDL	
100. 2014 5110	ug/L	
404. gamma-BHC	BDL	
40 - N. B. 10	ug/L	•
405. delta-BHC	BDL ug/L	
406. chlordane	BDL	•
	ug/L .	,
407. 4,4'-DDT	BDL	
400 4 41 DDE	ug/L	
408. 4,4'-DDE	BDL ug/L	<u> </u>
409. 4,4'-DDD	BDL	
	ug/L	
410. dieldrin	BDL	
414 alpha and aution	ug/L	
411. alpha-endosulfan	BDL ug/L	
412. beta-endosulfan	BDL	
	ug/L	
413. endosulfan sulfate	BDL	-
414. endrin	ug/L BDL	
414. Charit	ug/L	<u></u>
415. endrin aldehyde	BDL	
	ug/L	A Company of the Comp
416. heptachlor	BDL ug/L	
417. heptachlor epoxide	BDL	•
, 11. Nopidoliidi opoxida	ug/L	
418. PCB-1242	BDL	
Wo Bobbos	ug/L	
419. PCB-1254	BDL ug/L	
420. PCB-1221	BDL	
	ug/L	<u> </u>
421. PCB-1232	BDL	
422 DCR 1248	ug/L BDL	
422. PCB-1248	ug/L	
423. PCB-1260	BDL	
•	ug/L	



Bureau of Waste Prevention - Industrial Wastewater

Toxic Pollutants Form Use With BWP IW 38 & BWP IW 39

W201133
Transmittal Number
130595 - ATC Pretreat
Facility ID# (if known)

		\sim	1
Perm	π	υc	o

400. Pesticides	
Pollutant Name	Concentration
424. PCB-1016	BDL
•	ug/L
425. toxaphene	BDL
•	ug/L
500. Total Toxic Pollutants*	16.5 [1] ug/L

^{*}Use this total in your answer to Question 6b in Section B of the BWP IW 38 & BWP IW 39 Permit for Industrial Sewer User application

[1] Sampling data from outfall NS02 following pretreatment (Refer to Attachment A)

Attachment A

Wastewater Sampling Results

- Main Pretreatment Facility
- ATC Pretreatment System

. MAIN PRETREATMENT FACILITY SAMPLING DATA

S01 Combined Discharge

C01 Discharge from Main Pretreatment Facility

C01A Main Process Tank

C01B Concentrated Copper/Nickel Rinses

COIC Concentrated Tin Rinses

2 ATC PRETREATMENT SYSTEM SAMPLING DATA

NS02 Discharge from ATC Pretreatment System

C02 ATC Industrial Wastewater

Outfall S01 Combined Discharge (Main Pretreatment System Effluent and Sanitary Wastewater) 2007 Wastewater Sampling Results

Parameter	112360	17 17 17 17 17 17 17 17 17 17 17 17 17 1							
		POLW Discharge Limitation	Sample Type	Sampling Frequency	1stQ 2007	2007 2007	3rdQ 2007	4th0 2007	
Metals, Cyanide and Phenols	slo								
Aluminum		i o							
Antimony	1/600	TIMIL OF	composite	quarterly	0.31	0.12	0.11	Q	
Arsenic	l/om	111111111111111111111111111111111111111	composite	quarterly	S	9	ND	2	
Beryllium	l'em	24.0	composite	quarterly	Q.	ΩN	ON	Ð	
Cadmium	- Cour	700	composite	quarterly	2	ND	QN	Q.	
Chromium	1/600	01.0	composite	quarterly	S	QN	QV	Q	
Copper	1,611	//0	composite	quarterly	Q.	ΩN	QN	2	
Lead	III GAL	08.0	composite	quarterly	960'0	0.039	0.047	0.057	
Merciliv	mg/L	0.10	composite	quarterly	QN	문	ON	CZ	
Nickel	mgr	0.0007	composite	quarterly	S	S	QN	CX	
Selection	mg/L	0.60	composite	quarterly	2	2	S	S	
Silvor	mg/l	0.81	composite	quarterly	2	Q	CZ	CZ	
Thellim	mg/L	0.25	composite	quarterly	Ð	Ð	Q	S S	
Zloc	mg/.	0.93	composite	quarterly	ę	ΩN	Q	2	
	mg/L	3.70	composite	quarterly	0.092	S	CN	0.056	
Cvanide			-						
Phenole Total	mg/L	0.45	grab	quarterly	S	QV.	CN	CZ	
i nertore, total	mg/L	no limit	grab	quarterfy	0.20	2	0.05	ĆŅ	
				,					
loxic Pollutants									
TTO (624&625)	110/1	004.0							
EPA 624 (volatiles)	1/011	2,130			370.1				
EPA 625 (SVOCs)	1/01	See TO linit	grab	annually					
		oge I O Him	ausoduos	annualiy	0.111[2]				
Oil & Grease and pH									
Oil & Grease	mg/L	100	deno	- Potterio					
ЬН	ns	6.0 - 9.0	Cont	dual land	040	- 6	16	13	
				COLL	200	200	6.0	6-9	
Other Pollutants									
Coll									
Nitrosa A	mg/L	350	composite	quarterly	53	32	35	34	
Nicogen, Ammonia	mg/L	50	composite	quarterly	30.1	24.6	18.3	3 7 7	
Prosphorus, lotai	mg/L	25	composite	quarterly	21	3.7	200	0 -	
000	mg/L	no limit	composite	quarterly	300	210	280	180	
900%	mg/l.	350	composite	quarterly	220	280	240	150	
				Z)	})	200	

Notes; ND = Not Detected [1] Acetone [2] Aldrin

Main Pretreatment Facility Wastewater Sampling Results Internall Outfall C01

Parameter	Units	Sample	Number	Maximum	Average	Sample
		Type	ō	Concentration	Concentration	Dates
			Samples	-		
Metals, Cyanide and Phenois	. N.					
			-			
Copper	mg/L	grab	_	0.05	0.04	9/4-10/31/2007
Nickel	mg/L	grab	7	0.08	0.04	9/4-10/31/2007
Lead	mg/L	grab	. 7	0.02	0.01	9/4-10/31/2007
Antimony	mg/L	composite	1	QN		12/18/2007
Arsenic	mg/L	composite	-	QN		12/18/2007
Beryllum	mg/L	composite	٦	QN		12/18/2007
Cadmium	mg/L	composite	-	QN		12/18/2007
Chromium	mg/L	composite	-	QN		12/18/2007
Mercury	mg/L	composite	-	GN		19/18/2007
Selenium	mg/L	composite	-	QN		12/18/2007
Silver	mg/L	composite	-	QN		19/18/9007
Thallium	mg/L	composite	-	QN		10/18/2007
Zinc	mg/L	composite	1	GN		19/18/9007
						10,000
Cyanide	mg/L	grab	+	0.039		12/18/2007
						1002001

Toxic Pollutants						
TTO (624&625)	/611			OFF		
	11,652			270		
EPA 624 (volatiles)	μg/L	grab	-	270 [1]		19/18/2007
EPA 625 (SVOCs)	- Ha/L:	çaş	-	NIC		1000000
						1002/01/21
Other Pollutants						***************************************
TSS	//00	Logicolation		0.7		
	1/2017	PIISOCIION POSITO	-	12		12/18/2007
BOUS	mg/L	composite	12	380	188	3/30-11/12/2007
Phosphorus	100	Chico Compo	-			
	ا ا)	000	<u>.</u>	10/10/00/01

Notes:
ND = Not Detected
[1] Acetone

Internall Outfall C01A

Main Pretreatment Facility

Main Process Tank

Wastewater Sampling Results

Parameter	Units	Sample Type	Number of Samples	Maximum Concentration	Maximum Average Concentration Concentration	Sample Dates
Copper Nickel Lead	mg/L mg/L	grab grab grab	40 40 40	13.63 2.86 0.16	3.17 0.50 0.02	11/1-11/30/2007 11/1-11/30/2007 11/1-11/30/2007

Internall Outfall C01B
Main Pretreatment Facility
Concentrated Copper/Nickel Rinses
2007 Wastewater Sampling Results

Parameter	Units	Sample Type	Number of Samples	Maximum Concentration	Average Concentration	Sample Dates
Formaldehyde Copper Nickel	mg/L mg/L mg/L	grab estimate estimate	ဇ	5,900	2,309 50-1000 50-1000	10/5 - 12/12/2007

Internall Outfall C01C
Main Pretreatment Facility
Concentrated Tin Rinses
2007 Wastewater Sampling Results

	Jnits	Sample Type	Sample Number Type of Co	Maximum Average Concentration Concentration	Average Concentration	Sample Dates
hiourea mg/L		grab	ന	182	176	12/6/07, 12/7/07, 12/11/07

Outfall NS02

Advanced Technology Center - Fab 4 (ATC) Building 2007 Wastewater Sampling Results

rarameter	Units	POTW	Sample	Sampling	January-June	July-December
		Discharge Limitation	Type	Frequency	2007	2007
Metals, Cyanide and Phenois	henois					
Antimony	l'om	tlent on	of occurred	100,000		
Arsenic	mo/L	0.42	Composite	semiannia	ON CA	ON N
Beryllum	mg/L	0.12	composite	semiannual	Q Q	CN
Cadmium	"Them	0.02	composite	semiannual	2	S
Chromium	mg/L.	0.77	composite	semiannual	Q.	202
Copper	_l/bш	0.3	composite	semiannual	0.014	0.025
Lead	ma/L	0.08	composite	semiannual	GN C	QN
Mercury	mg/L	0.0007	composite	semiannual	GN	ON
Nickel	mg/L	0.37	composite	semiannual	S	GN
Selenium	l/bш	0.81	composite	semiannual	S	S
Silver	mg/L.	0.01	composite	semianoual	QN	QN .
Thalilum	mg/L	0.93	composite	semiannual	S	SOS
Zinc	Пg/L	0.5	composite	semlannual	Q.	ON
Cyanide	mg/L	0.23	grab	semiannual	GN	CN
Phenols, Total	"ng/L	no limit	grab	semiannual	QN	QN
Toxic Pollutants						

TTO (624&625)	µg/L	2,130			32.5	G2
EPA 624 (votatiles)	μg/L	see TTO limit	grab	semiannual	32,5 [1]	GN
EPA 625 (SVOCs)	ng/L	see TTO limit	camposite	semiannual	QQ.	QN
Oil & Grease and pH						
Oil & Grease	mg/L	100	grab	semiannual	< 4.4	1 > 4
Hd	ns i	6.0 - 9.0	cont.	cont.	6-9	6-9

Other Pollutants						
TSS	mg/L	no limit	composite	semiannual	ς ν	7 V
Nitrogen, Ammonia	mg/L	no limit	composite	semiannual	1.42	1.40
Phosphorus, Total	∏∂(r	no limit	composite	semiannual	0.00	0.13
COD	mg/L	no limit	composite	semiannual	250	85
BODs	T/6w	no Ilmit	composite	semiannual	< 10	78

Notes: ND = Not Detected [1] Acetone = 16 mg/L

Internall Outfall C02 Advanced Technology Center - Fab 4 (ATC) Building ATC Industrial Wastewater

Parameter	Units	Sample Type	Number of Samples	Maximum Concentration	Maximum Average Concentration Concentration	Sample Dates	3-X-5-42-78-75-75-12-
Copper Nickel	mg/L mg/L	composite composite	← ←	0.160 0.143	n/a n/a	5/6/2005	

Attachment B

POTW Sewer Use Permits

- Main Pretreatment Facility
- ATC Pretreatment System





K. LeMain Copy K. Sewan

City of Mariborough Westerly Wastewater Treatment Plant 303 Boundary Street Marlborough, MA 01752

November 2, 2006

Sarita Croce Rohm and Haas Electronic Materials, LLC 455 Forest Street Marlborough, MA 01752

Dear Sarita Croce:

Enclosed is your updated permit. All conditions of this permit shall take effect on the Effective Date as stated on the permit.

The only exception is the BODs. <u>Daily Maximum Limit</u>, which will become effective at a later date.

If you have any questions, please contact me @508-624-6919.

Respectfully

Roland Gould, IPP Coordinator

EFFECTIVE DATE: EXPIRATION DATE:

12/04/06 12/03/2011

PERMIT # SIU4817950

Facility Name:

Rohm and Haas Electronic Materials, LLC

455 Forest Street

Marlborough, MA 01752

I. <u>DEFINITIONS</u>

Unless the context clearly indicates otherwise, the meaning of the terms or abbreviations used in this discharge permit shall be defined in exhibit "A".

II. GENERAL CONDITIONS

- a. All discharges authorized herein shall be consistent with the terms of this permit and the Marlborough Sewer Regulations, Section 161-1 et. seq. The discharge of any pollutant more frequently than or at a level in excess of that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit. Such a violation may result in the imposition of civil and / or criminal penalties as provided for in Mariborough's Sewer Regulations, and applicable state and federal clean water laws. Modifications, additions and / or expansions that increase or decrease the quality and / or quantity of wastewater discharged to the Wastewater Facilities must be reported to the City of Marlborough's Industrial Pretreatment Coordinator, in writing, and this permit may then be modified or reissued to reflect such changes. No change in the permittee's discharge may be made unless reported to, and approved by the City. In no case shall new connections, increased flows, or significant changes in effluent quantity and / or quality be permitted, unless permitted by the City.
- b. This permit may be modified, suspended, or revoked in whole or in part during its term, without limitation, for the following reasons:
 - 1. Violation of any term or condition of this permit;
 - 2. Obtaining permit by misrepresentation or failure to disclose fully all-relevant facts.
 - 3. A change in conditions or the existence of a condition which requires either a temporary or permanent reduction or elimination of the authorized discharge.
 - 4. Promulgation of a more stringent pretreatment standard by State or Federal agencies having jurisdiction over receiving waters. Permits modified under this section may include implementation schedules, self monitoring requirements, revised effluent limitations, and other provisions necessary to assure compliance.
 - 5. Violation of the Marlborough Sewer Regulations, or other applicable laws.
 - c. The permittee shall permit the City of Marlborough Department of Public Works and

other duly authorized Industrial Pretreatment personnel, upon the presentation of proper credentials, the right of entry referenced in the Marlborough Sewer Regulations, including without limitation, the right:

- 1. To enter upon permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit during business hours:
- To have access to and copy any records required to be kept under the terms and conditions of this permit:
- 3. To inspect any monitoring equipment or monitoring method required in this permit; or
- 4. To sample at any intake, wastewater facility, outfall, or other location related to the facilities operations.
- In the event that the permittee undergoes a sale of assets or major change in ownership of either its corporate voting stock or control of its corporate stock or of the building to which this permit relates, then and in any of said events, the permittee shall notify the City of Marlborough's Pretreatment Coordinator of such change. Failure to so notify the Pretreatment Coordinator within 30 days of such event shall void the permit at the option of the City of Marlborough. In the event of such transfer, the Transferee shall forthwith enter into a new permit with the City, which embodies the terms of this permit as may be amended or modified.
- e. All pretreatment facilities shall be operated in a manner consistent with the Marlborough Sewer Use Regulations and any applicable Federal, State, or local regulations and guidelines. The Permittee shall at all times maintain in good working order and operate any necessary facilities or systems of controls installed or utilized to achieve continual compliance with the terms and conditions of this permit, the Mariborough Sewer Regulations, and applicable laws.
- f. The issuance of this permit does not convey any property rights in either its real or personal property, or any exclusive privileges; nor does it authorize or relieve the permittee of any liability for any injury to private property or any invasion of personal rights; nor any infringement of Federal, State, or local laws or regulations; nor does it waive the necessity of obtaining any State or Federal assent required by law for the discharge authorized herein;
- g. The provisions of this permit are severable and the invalidity of any condition or subdivision thereof shall not make void any other condition or subdivision thereof.
- h. Non-Compliance: In the event the permittee is unable to comply with any of the conditions of this permit, the Marlborough Sewer Regulations, or applicable laws, the permittee shall provide the City of Marlborough's Pretreatment Coordinator with the following information, in writing, within five (5) days after commencement of such occurrence;
 - 1. Cause of non-compliance;
 - 2. Anticipated time the condition of non-compliance is expected to continue, or if

- such conditions have been corrected, the duration of the period of noncompliance;
- 3. Steps taken by the permittee to reduce and eliminate the non-complying discharge;
- 4. Steps to be taken by the permittee to prevent recurrence of the condition of noncompliance.

The City reserves all rights and remedies that it has under or by reason of any statutory law, ordinance, regulation, or common law, or other applicable law, to cure any breach of this agreement or to enforce any penalty for the breach thereof.

- i. <u>Emergency Action Electric Power Failure:</u> The permittee shall provide an alternative source of power for the operation of its pretreatment facilities or shut down its industrial operation during a power failure. The alternative power supply, whether from a generating unit located at the plant site or purchased from an independent source of electricity, must be separate from the existing power source used to operate the pretreatment facilities.
- j. <u>Bypasses. Slug Loads. Spills:</u> Slug loads, spills or bypass of any discharge from its pretreatment facilities utilized by the permittee to maintain compliance with the terms and conditions of this permit is prohibited, except where unavoidable to prevent loss of life. The permittee shall follow the requirements in 40 CFR Part 403, including section 403.16 (c) (3) which includes the verbal notification of the Pretreatment Coordinator within 24 hours, and in writing, of each such slug, spill or bypass in accordance with the procedure specified in part: "h. <u>Non-Compliance</u>" of this same section of this permit.
- k. <u>Revisions:</u> The City of Marlborough reserves the right to make appropriate revisions to this permit in order to establish any appropriate effluent limitations, management practices, operational procedures, schedule or compliance, or other provisions which may be authorized under Federal, State or City law in order to bring all such discharges into compliance with these acts.
- 1. Reapplication: If the permittee desires to continue to discharge after the expiration of this permit, it shall reapply on the application forms then in use at least one hundred eighty (180) days before the Permit expires. Under no circumstances shall the permittee continue to discharge after the expiration of the Permit.

III. SPECIAL CONDITIONS

- a. The permittee is required to connect their wastewater facilities to the public sewer in accordance with the provisions of the Marlborough Sewer Use regulations, and other applicable laws.
- b. The Permittee is authorized to discharge only wastewater whose effluent and other characteristics shall not:
 - (i) exceed the values listed in Section VII. MONITORING REQUIREMENTS or,

- (ii) otherwise cause a violation of the Marlborough Sewer Regulations and state and federal pretreatment laws.
- c. <u>Solids Disposal</u>: Collected screenings, sludges and other solids removed from liquid wastes shall not be allowed entry into the City's sewer collection system.

IV. COSTS AND CHARGES

- a. <u>Summary of Costs and Charges:</u> In consideration of the wastewater disposal services provided by the City under the terms of this permit, the permittee shall pay a user charge at established rates.
 - 1. <u>Connection Costs:</u> The entire cost of connecting the permittee's wastewater facilities to the City's system shall be paid by the Permittee or otherwise provided for to the satisfaction of the City.
 - 2. <u>Late Charges:</u> All billings shall be subject to nine percent per annum late charge if not paid within thirty (30) days of the billing date.
 - 3. Payments: All payments shall be made by check drawn payable to the order of the City of Mariborough and mailed to the DPW Municipal Garage, 135 Neil Street, Mariborough, MA 01752.
 - b. <u>Penalties:</u> In addition, the permittee shall pay all penalties or fines, and any related costs, expenses, and technical, consulting and legal fees, incurred by or claimed against the City by any state or federal agency resulting from permittee's noncompliance.

V. REPORTING AND MONITORING

- a. At each connection between the permittee's sewer system and the City's collection system the permittee shall install flow meters(s), composite sampler(s), sampling station, or other device(s) that shall measure sample and record the quantity / quality of wastewater flow from the industry. All monitoring devices and sampling stations must be approved by the City of Marlborough. The permittee shall maintain records of all information resulting from any monitoring activities required herein. The permittee shall accept the estimates of quantities of wastewater as established by the Industrial Pretreatment Coordinator during all periods in which the meters fail to measure the wastewater flow correctly.
- b. The Permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at regular intervals to ensure accuracy of measurements.
- c. The Permittee shall provide the above records and shall demonstrate the accuracy of the monitoring devices upon request of the City of Mariborough.
- d. The Permittee shall analyze any samples as may be required by the City of Marlborough to ensure effluent quality control.
- e. If the Permittee monitors or analyzes any wastewater parameters more frequently than is required by this permit, the results of such monitoring and analysis shall also be provided to the City of Marlborough's IPP coordinator.

- f. Sampling and Analysis: The sampling, preservation, handling, and analytical methods used must conform to the Approved Methods in 40 CFR 136.
- g. All limitations as given in this permit are conditional, and may be revised, should the concentrations prove detrimental to the proper operation and maintenance of the Marlborough Treatment Facilities. In addition to costs and charges under Section IV a. and IV b., upon notification to reduce the specified concentrations, the Permittee shall be responsible for all costs incurred at the Treatment Facilities, which resulted because of excessive concentrations.
- h. All industries are required to resample and analyze for any parameter that is in violation of their permit within 30 (thirty) days, and submit the test results to the IPP coordinator.

VI <u>IMPLEMENTATION SCHEDULE</u>

- a. The permittee shall:
 - 1. Ensure that a functional composite sampler is available for the collection of a representative effluent sample.
 - 2. Operate a pH meter with a continuous chart recorder which shall be maintained and calibrated at least biweekly.
 - 3. Operate a flow meter for continuous measurement of discharge volume, which shall be calibrated at least annually.

b. Pretreatment

The permittee shall achieve compliance with the final effluent limitations as delineated below.

1. This facility is subject to the terms and conditions set forth in 40 CFR part 403.

VII. MONITORING REQUIREMENTS

Monitoring Facilities - Outfall # S01: Located in manhole in exit driveway and marked as S01.

The Permittee shall collect and analyze representative samples for listed parameters not less frequently than the following schedule:

Parameter .	<u>Units</u>	Daily Maximum Limit	Sample Typ	e Sample Freq
Aluminum	mg/l	NLS	C	1/ Q
Ammonia, nitrogen	mg/I	50.0		1/Q
Antimony	mg/l	NLS	c c	1/Q
Arsenic	mg/i	0.42	$\ddot{\mathbf{c}}$	1/Q
BOD ₅	mg/l	. 350	č	1/Q
Beryllium	mg/l	0.12	č	1/Q
COD	mg/I	NLS	$\hat{m{c}}$	1/Q
Cadmium	mg/l	0.10	C	1/Q
Chromium	mg/l	0.77	C.	1/Q
Copper	mg/l	0.30	C	$\mathbf{I}/\mathbf{\hat{Q}}$
Cyanide	mg/l	0.45	G	1/Q
Flow, Process**	gpd	90,000	D	CONTINUOUS
Flow, Total	gpd	100,000	D	CONTINUOUS ,
Lead	mg/l	0.10	¢	1/Q
Mercury	mg/l	0,0007	C	1/Q
Nickel	mg/l	0.60	C -	I/Q
Oil and grease	mg/l	100	G	1/Q
Phenol	mg/l	NLS	G	1/Q
Selenium	mg/l	0.81	C	1/Q · · ·
Silver	mg/l	0.25	C	1/Q
EPA 624, 625*	mg/l	2.13	G/C	1/Y
Thallium.	mg/l	0.93	C	1/Q
Total Phosphorus	mg/l	25.0	C	1/Q
TSS	mg/l	350	C	1/Q
Zinc	mg/l	3.70	C	1/ Q
PH	SU	6.0 - 9.0	D (CONTINUOUS

^{*} EPA 624 is to be done on a grab sample; EPA 625 is done on a composite sample.

Abbreviations: C = Composite, G = Grab, D = Daily, NLS = No Limit Set, Q = Quarterly, Y = Yearly (Annually)

- A. All Weekly reports are due no later than three (3) weeks from the sampling date.
- B. All Monthly reports are due by the 15th day of the following month.
- C. All <u>Quarterly reports</u> are due no later than the 15^{th day} of April, July, October and January.*
- D. All Semi-annual reports are due by the 15th day of June and December.
- E. All Annual reports are to be received no later than December 31st.

^{**} Measured at outfall CO1.

*Example: If there is a requirement for quarterly phosphorus sampling, a sample has to be taken in January, February or March and the results are to be received by the IPP coordinator by April 15th. This scenario is the same for all calendar quarters.

Municipal Limitations / Conditions / General comments

- 1. Adhere to the City of Marlborough's Sewer Regulations, and all state and federal laws.
- 2. Ensure that a functional composite sampler is available for the collection of a representative effluent sample.
- 3. Ensure that the pH meter with a continuous chart recorder is calibrated at least biweekly.
- 4. Ensure that the flow meter for continuous measurement of discharge volume is calibrated at least annually.
- 5. The wastewater discharge shall not contain a visible oil sheen or foam at any time. In addition, the wastewater discharge shall not contain any foaming agents in quantities that would manifest themselves either in the immediate wastewater discharge or in downstream locations, including without limitation, the City's wastewater treatment plant or in downstream waters.
- 6. It shall be considered a violation of this permit if any feaming agents, or other wastewater constituents result in, or contribute to, any adverse impact on the City's wastewater treatment facility, its sewer collection system, the receiving waters, or any other location below SO1.

Permit #: SIU4817950

Effective date:

12/04/06

Expiration date:

12/03/2011

This page is considered part of the discharge permit.

CITY OF MARLBOROUGH AUTHORIZATION TO DISCHARGE TO THE EASTERLY / WESTERLY WASTEWATER TREATMENT FACILITY

Company Name:

Rohm and Haas Electronic Materials, LLC

Address:

455 Forest Street

Telephone Number: 508-481-7950

Rohm and Haas Electronic Materials, LLC is authorized by the Department of Public Works to discharge wastewater from 455 Forest Street, Marlborough, MA., to the Marlborough Westerly WWTP in accordance with the following conditions.

Adhere to all of the conditions in your Industrial Wastewater Discharge Permit # SIU4817950

This permit consists of 11 pages including effluent limitations, monitoring requirements and general conditions etc.

Signed this 3 day of November . 200 6

Roland Gould **IPP** Coordinator

Marlborough DPW



CITY OF MARLBOROUGH ACKNOWLEDGEMENT OF PERMIT LIMITATIONS

The undersigned acknowledges the receipt of the permit authorizing discharge of wastewater to the Marlborough Sewer System being permit # SIU4817950. The permittee also acknowledges that this permit is issued at its request based upon the application for the permit and the information provided and acknowledges the conditions and limitations set forth in said permit. All information and data contained in this document pursuant to the General Pretreatment Requirements Part 403.14 identifying the nature and frequency of a discharge shall be available to the public without restriction.

City of Marlborough

Rohm and Haas Electronic Materials, LLC

(permitting authority)

(permittee)

Date: 11/3/06

FACT SHEET

Rohm and Haas Electronic Materials, LLC located at 455 Forest Street in Marlborough is being issued a Marlborough Industrial Wastewater Discharge Permit, as your industry is considered a Significant Industrial User by the City of Marlborough.

Your discharge will be treated at the Marlborough Westerly Wastewater Treatment Plant on 303 Boundary Street in Marlborough, Massachusetts. The discharge from the Marlborough West Plant enters the Assabet River that then flows to the Sudbury River. The confluence of the Sudbury and Assabet Rivers form the Concord River that flows north to the Merrimac River then out to the Atlantic Ocean.

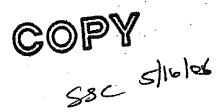
EXHIBIT "A"

DEFINITIONS

- 1. BOD, denotes BIOCHEMICAL OXYGEN DEMAND, which means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedures in five (5) days at twenty (20) degrees Centigrade expressed in parts per million by weight, as determined by Standard Methods.
- 2. CITY shall mean the City of Marlborough, Mass.
- DISCHARGE MEASUREMENT The determination of the quantity of wastewater flowing per unit of time in the sewer system at a given point by means of a current meter, rod float, weir, Pitot tube, or other measuring device or method.
- 4. FLOW RECORDER shall mean a weir, meter, flume or other device, which will measure and record the volume of wastewater discharged.
- 5. MGD Wastewater flow in million gallons per day.
- MAXIMUM DAILY FLOW shall mean the highest daily rate of wastewater flow occurring within a single day.
- 7. MEASURING DEVICE An instrument determining concentration, flow, etc.
- 8. METER An instrument for measuring the amount and rate of flow of liquids.
- 9. MINIMUM DAILY FLOW shall mean the smallest rate of wastewater flow of liquids.
- MONITORING DEVICE shall mean any equipment, which specifically measures, and/or samples wastewater.
- 11. PRETREATMENT FACILITIES shall mean the structures, equipment, and processes required to collect, treat and transport.
- 12. QUANTITY AND QUALITY OF WASTEWATER in an expression, which determines the amount and composition of the wastewater. Composition, in this case refers to the chemical and physical characteristics of the solid and liquid constituents of the wastewater. These characteristics are usually measured in terms of gallons per day, BOD, and SS.

EFFECTIVE DATE: 2/10//2003 EXPIRATION DATE: 2/09/2008

Facility Name: Shipley Company, L.L.C.,
Advanced Technology Center (Fab 4)
455 Forest Street
Marlborough, MA 01752



I. DEFINITIONS

Unless the context clearly indicates otherwise, the meaning of the terms or abbreviations used in this discharge permit shall be defined in exhibit "A".

IL GENERAL CONDITIONS

- a. All discharges authorized herein shall be consistent with the terms of this permit. The discharge of any pollutant more frequently than or at a level in excess of that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit. Such a violation may result in the imposition of civil and / or criminal penalties as provided for in Marlborough's Sewer Use Ordinance and / or Public Law 92 500. Modifications, additions and / or expansions that increase or decrease the quality and / or quantity of wastewater discharged to the Wastewater Facilities must be reported to the City of Marlborough's Industrial Pretreatment Coordinator, in writing, and this permit may then be modified or reissued to reflect such changes. No change in the permittee's discharge may be made unless reported to, and approved by the City. In no case shall new connections, increased flows, or significant changes in effluent quantity and / or quality be permitted if such will cause violation of the effluent limitation specified herein, unless permitted by the City.
- b. After notice and opportunity for a hearing as provided in Section 15 9(d) of the Sewer** Use Ordinance, this permit may be modified, suspended, or revoked in whole or in part during its term, for causes including the following:
 - 1. Violation of any term or condition of this permit;
 - Obtaining permit by misrepresentation or failure to disclose fully all-relevant facts.
 - 3. A change in conditions or the existence of a condition which requires either a temporary or permanent reduction or elimination of the authorized discharge.
 - 4. Promulgation of a more stringent pretreatment standard by State or Federal agencies having jurisdiction over receiving waters. Permits modified under this section may include implementation schedules, self monitoring requirements, revised effluent limitations, and other provisions necessary to assure compliance.
 - c. The permittee shall permit the City of Marlborough Department of Public Works and

other duly authorized Industrial Pretreatment personnel upon the presentation of proper credentials:

- To enter upon permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit during business hours;
- To have access to and copy any records required to be kept under the terms and conditions of this permit;
- 3. To inspect any monitoring equipment or monitoring method required in this permit; or
- 4. To sample at any intake, wastewater facility, or outfall.
- d. In the event that the permittee undergoes a major change in ownership of either its corporate voting stock or control of its corporate stock or of the building to which this contract relates, then and in any of said events, the permittee shall notify the City of Marlborough's Pretreatment Coordinator of such change. Failure to so notify the Pretreatment Coordinator within 30 days of such event shall void the permit at the option of the City of Marlborough. In the event of such transfer, the Transferee shall forthwith enter into a new permit with the City, which embodies the terms of this permit.
- e. If applicable, all pretreatment facilities shall be operated in a manner consistent with the Sewer Use Ordinance and any Federal. State, or local regulations and guidelines. The Permittee shall at all times maintain in good working order and operate as efficiently as possible any facilities or systems of controls installed or utilized to achieve compliance with the terms and conditions of this permit.
- f. The issuance of this permit does not convey any property rights in either its real or personal property, or any exclusive privileges; nor does it authorize or relieve the permittee of any liability for any injury to private property or any invasion of personal rights; nor any infringement of Federal, State, or local laws or regulations; nor does it waive the necessity of obtaining any State or Federal assent required by law for the discharge authorized herein;
- g. The provisions of this permit are severable and the invalidity of any condition or subdivision thereof shall not make void any other condition or subdivision thereof.
- h. <u>Non-Compliance:</u> In the event the permittee is unable to comply with any of the conditions of this permit due to a breakdown of pretreatment facilities, the permittee shall provide the City of Marlborough's Pretreatment Coordinator with the following information, in writing, within five (5) days after commencement of such occurrence;
 - 1. Cause of non-compliance;
 - 2. Anticipated time the condition of non-compliance is expected to conditions, or if such conditions have been corrected, the duration of the period action compliance;
 - Steps taken by the permittee to reduce and eliminate the non-edischarge;

4. Steps to be taken by the permittee to prevent recurrence of the condition of non-compliance.

The City reserves all rights and remedies that it has under or by reason of any statutory law, ordinance, or common law to cure any breach of this agreement or to enforce any penalty for the breach thereof.

- i. <u>Emergency Action Electric Power Failure:</u> The permittee shall provide an alternative source of power for the operation of its pretreatment facilities or shut down its industrial operation of its pretreatment facilities or shut down its industrial operation during a power failure. The alternative power supply, whether from a generating unit located at the plant site or purchased from an independent source of electricity, must be separate from the existing power source used to operate the pretreatment facilities.
- j. <u>Bypasses</u>, <u>Slug Loads</u>, <u>Spills</u>: The slug loads, spills or bypass of any discharge from its pretreatment facilities utilized by the permittee to maintain compliance with the terms and conditions of this permit is prohibited, except where unavoidable to prevent loss of life. The permittee shall immediately notify the Pretreatment Coordinator, in writing, of each such slug, spill or bypass in accordance with the procedure specified above for reporting non compliance.
- k. <u>Revisions:</u> The City of Marlborough reserves the right to make appropriate revisions to this permit in order to establish any appropriate effluent limitations, schedule or compliance, or other provisions which may be authorized under Federal, State or City acts in order to bring all such discharges into compliance with these acts.
- 1. <u>Reapplication:</u> If the permittee desires to continue to discharge after the expiration of this permit, it shall reapply on the application forms then in use at least sixty (60) days before the Permit expires. Under no circumstances shall the permittee continue to discharge after the expiration of the Permit.

III. SPECIAL CONDITIONS

- a. The permittee is required to connect their wastewater facilities to the public sewer in accordance with the provisions of the Sewer Use Ordinance, within ninety (90) days after the date of the official notice to do so, provided that said public sewer is determined to be accessible and available by the Department of Public Works.
- b. Upon connection to the City's wastewater facilities, the Permittee is authorized to discharge wastewater whose effluent characteristics shall not exceed the values listed in Section VII., MONITORING REQUIREMENTS.
- c. <u>Solids Disposal:</u> Collected screenings, sludges and other solids removed from liquid wastes shall not be allowed entry into the City's sewer collection system.

IV. COSTS AND CHARGES

a. <u>Summary of Costs and Charges:</u> In consideration of the wastewater disposal services provided by the City under the terms of this permit, the permittee shall pay a user charge at established rates.

- Connection Costs: The entire cost of connecting the permittee's wastewater facilities to the City's system shall be paid by the Permittee or otherwise provided for to the satisfaction of the City.
- 2. <u>Late Charges:</u> All billings shall be subject to nine percent per annum late charge if not paid within thirty (30) days of the billing date.
- Payments: All payments shall be made by check drawn payable to the order of the City of Marlborough and mailed to the DPW Municipal Garage, 135 Neil Street, Marlborough, Mass. 01752.

V. REPORTING AND MONITORING

- a. At each connection between the permittee's sewer system and the City's collection system the permittee shall install flow meters(s), composite sampler(s), sampling station, or other device(s) that shall measure sample and record the quantity / quality of wastewater flow from the industry. All monitoring devices and sampling stations must be approved by the City of Marlborough. The permittee shall maintain records of all information resulting from any monitoring activities required herein. The permittee shall accept the estimates of quantities of wastewater as established by the Industrial Pretreatment Coordinator during all periods in which the meters fail to measure the wastewater flow correctly.
- b. The Permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at regular intervals to ensure accuracy of measurements.
- c. The Permittee shall provide the above records and shall demonstrate the accuracy of the monitoring devices upon request of the City of Marlborough.
- d. The Permittee shall analyze any samples as may be required by the City of Marlborough to ensure effluent quality control.
- e. If the Permittee monitors any wastewater parameters more frequently than is required by this permit, the results of such monitoring shall also be made available upon request to the City of Marlborough's IPP coordinator.
- f. <u>Sampling and Analysis:</u> The sampling, preservation, handling, and analytical methods used must conform to the Approved Methods in <u>40 CFR 136.</u>
- g. All limitations as given in this permit are conditional, and may be revised, should the concentrations prove detrimental to the proper operation and maintenance of the Treatment Facilities. Upon notification to reduce the specified concentrations, the Permittee shall be responsible for all costs incurred at the Treatment Facilities, which resulted because of excessive concentrations.
- b. All industries are required to resample and analyze for any parameter that is in violation of their permit within 30 (thirty) days, and submit them to the IPP coordinator.

VI · IMPLEMENTATION SCHEDULE

No later than fourteen (14) calendar days following the date identified in the following schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or non-compliance. In the latter case, the notice shall include the cause of non-compliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

1. Ensure that a functional composite sampler is available for the collection of a representative effluent sample.

2. A pH meter with a continuous chart recorder shall be installed for monitoring regulated wastewater within thirty (30) days of the effective date of this permit and calibrated at least weekly.

3. Install a flow meter for continuous measurement of discharge volume within thirty (30) days of the effective date of this permit. This meter shall be calibrated at least annually.

b. Pretreatment

The permittee shall achieve compliance with the final effluent limitations as delineated below.

1. This facility is subject to the terms and conditions set forth in the City of Marlborough Sewer Use Ordinance and this permit.

VII. MONITORING REQUIREMENTS

Monitoring Facilities – Advanced Technology Center (Fab 4) building Monitoring samples are to be taken after all industrial processes and pretreatment. Monitoring location shall be identified as NS02.

The Permittee shall collect and analyze representative samples for listed parameters not less frequently than the following schedule:

<u>Parameter</u>	<u>Units</u>	Daily Maximum Limit	Sample E	Sample Freq
Ammonia, nitrogen	mg/l	NLS	0	S
Antimony	mg/l	NLS	C	S
Arsenic	mg/l	0.42	Ç.	S
BOD ₅	mg/l	NLS	C	S S
Beryllium	mg/l	0.12	C	S
COD	mg/l	NLS	C	S
Cadmium	mg/l	0.02		S
Chromium	mg/l	0.77	C	S
Copper	mg/l	0.30		S
Cyanide	mg/l	0.23		S
Flow, Process	gpd	3,000 CC	INTINUE!	NTINUOUS
waa aafaa aa a	7.7	• 5	475.5ALX	

Lead	mg/l	0.08	C	S
Mercury	mg/l	0.0007	C	S
Nickel	mg/l	0.37	C	S .
Oil and grease	mg/l	100	G	S
Phenol	mg/l	NLS	G.	S
Selenium	mg/l	0.81	C	S
Silver	mg/l	0.01	C	S
EPA 624, 625*	mg/l	2.13	G/C	S
Thallium	mg/l	0.93	C	S
Total Phosphorus	mg/l	NLS	C	S
TSS	mg/l	NLS	C	S
Zinc	mg/l	0.50	C	S
PH	$S\overline{\mathbf{U}}$	6.0 - 9.0	CONTINUOUS	CONTINUOUS

^{*} EPA 624 is to be done on a grab sample; EPA 625 is done on a composite sample.

- A. All Weekly reports are due no later than three (3) weeks from the sampling date.
- B. All Monthly reports are due by the 15th day of the following month.
- C. All <u>Quarterly reports</u> are due no later than the 15th day of April, July, October and January.*
- D. All Semi-annual reports are due in June and December.
- E. All Annual reports are to be received no later than December 31st.

Municipal Limitations / Conditions / General comments

- 1. Adhere to the City of Marlborough's Sewer Use Ordinance.
- Ensure that a functional composite sampler is available for the collection of a representative effluent sample.
- 3. Ensure that the pH meter with a continuous chart recorder is calibrated at least biweekly.
- 4. Ensure that the flow meter for continuous measurement of discharge volume is calibrated at least annually.
- 5. The wastewater discharge shall not contain a visible oil sheen or foam at any time.
- 6. The discharge shall not contain objectionable discoloration.

^{*}Example: If there is a requirement for quarterly phosphorus sampling, a sample has to be taken in January, February or March and the results are to be received by the IPP coordinator by April 15th. This scenario is the same for all calendar quarters.

Effective date: 2/10/2003 Expiration date: 2/09/2008

This page is considered part of the discharge permit.

CITY OF MARLBOROUGH AUTHORIZATION TO DISCHARGE TO THE EASTERLY / <u>WESTERLY</u> WASTEWATER TREATMENT FACILITY

Company-Name: Shipley Company, L.L.C.

Address: 455 Forest Street

Marlborough, MA 01752

Telephone Number: 508-481-7950

The Shipley Company is authorized by the Department of Public Works to discharge wastewater from the Advanced Technology Center (Fab 4) located at 455 Forest Street, Marlborough, Massachusetts to the Marlborough Westerly WWTP in accordance with the following conditions.

Adhere to all of the conditions in your Industrial Wastewater Discharge Permit # NSIU4817950-1

This permit consists of /2 pages including effluent limitations, monitoring requirements and general conditions etc.

Signed this 5 day of February 2003

Roland Gould IPP Coordinator

Mariborough DPW

CITY OF MARLBOROUGH ACKNOWLEDGEMENT OF PERMIT LIMITATIONS

The undersigned acknowledges the receipt of the permit authorizing discharge of wastewater to the Marlborough Sewer System being permit # NSIU4817950-1. The permittee also acknowledges that this permit is issued at its request based upon the application for the permit and the information provided and acknowledges the conditions and limitations set forth in said permit. All information and data contained in this document pursuant to the General Pretreatment Requirements Part 403.14 identifying the nature and frequency of a discharge shall be available to the public without restriction.

City of Marlborough

Shipley Company, L.L.C.

(permitting authority)

(permittee)

 Ω

1. Harano Jana 4

Date: 2/5/03

зу: <u>С</u>

Date: 5th Felo 03

FACT SHEET

Shipley Company L.L.C. located at 455 Forest Street in Marlborough is being issued this Marlborough Industrial Wastewater Discharge Permit for the Advanced Technology Center, designated as "Fab 4".

Your discharge will be treated at the Marlborough Westerly Wastewater Treatment Plant on 303 Boundary Street in Marlborough, Massachusetts. The discharge from the Marlborough West Plant enters the Assabet River that then flows to the Sudbury River. The confluence of the Sudbury and Assabet Rivers form the Concord River that flows north to the Merrimac River then out to the Atlantic Ocean.

EXHIBIT "A"

DEFINITIONS

- 1. BOD, denotes BIOCHEMICAL OXYGEN DEMAND, which means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedures in five (5) days at twenty (20) degrees Centigrade expressed in parts per million by weight, as determined by Standard Methods.
 - 2. CITY shall mean the City of MARLBOROUGH, MASS.
- 3. DISCHARGE MEASUREMENT The determination of the quantity of wastewater flowing per unit of time in the sewer system at a given point by means of a current meter, rod float, weir, Pitot tube, or other measuring device or method.
- 4. FLOW RECORDER shall mean a weir, meter or flume or other:device, which will measure and record the volume of wastewater discharged.
 - 5. MGD Wastewater flow in million gallons per day.
- 6. MAXIMUM DAILY FLOW shall mean the highest daily rate of wastewater flow occurring within a single day.
- 7. MEASURING DEVICE Instrument determining concentration, flow, etc.
- B. METER An instrument for measuring the amount and rate of flow of liquids.
- 9. MINIMUM DAILY FLOW shall mean the smallest rate of wastewater flow of liquids.

- 10. MONITORING DEVICE shall mean any equipment which specifically measures and/or samples wastewater.
- 11. PRETREATMENT FACILITIES shall mean the structures, equipment, and processes required to collect, treat, and transport.
- which determines the amount and composition of the wastewater.

 Composition, in this case, refers to the chemical and physical characteristics of the solid and liquid constituents of the wastewater.

 These characteristics are usually measured in terms of gallons per day, BOD and SS.
- 13. SAMPLE shall mean a portion of the wastewater obtained for analytical purposes. This portion may be a single sample (grab), composite sample, continuous sample or periodic sample.
 - a. SAMPLER A device used with or without flow measurement to obtain in aliquot portion of water or wastewater for analytical purposes. May be designed for taking single sample (grab), composite sample, continuous sample, periodic sample.
 - composite wastewater sample A combination of individual samples of water or wastewater taken at selected intervals, generally hourly for some specified period, to minimize the effect of the variability of the individual sample. Individual

samples shall be proportioned to the flow at time of sampling.

- c. SAMPLING STATION A specified site where monitoring takes place on a regular basis.
- 14. SHALL is mandatory; MAY is permissive.
- . 15. SUSPENDED SOLIDS shall mean the solids that either float on the surface of, or are in suspension in wastewater and which are largely removable by laboratory filtering, and wastewater treatment plant.
- 16. WASTEWATER TREATMENT FACILITIES The structures, equipment, and processes required to collect, transport, treat and dispose of wastewater and dispose of the effluent including but not limited to collection system, interceptors, and wastewater treatment plant.
- 17. TREATMENT (TREAT) shall mean a process to which wastewater is subjected in order to remove or alter its objectional constituents and thus render it less offensive or dangerous.
- 18. WASTEWATER The spent water of an industry. Spent water may be a combination of the liquid wastes from industrial establishments, together with any groundwater, surfacewater and storm water that may be present.
- 19. WASTEWATER DISPOSAL The act of disposing of wastewater by discharging to the City's Wastewater Treatment Facilities.

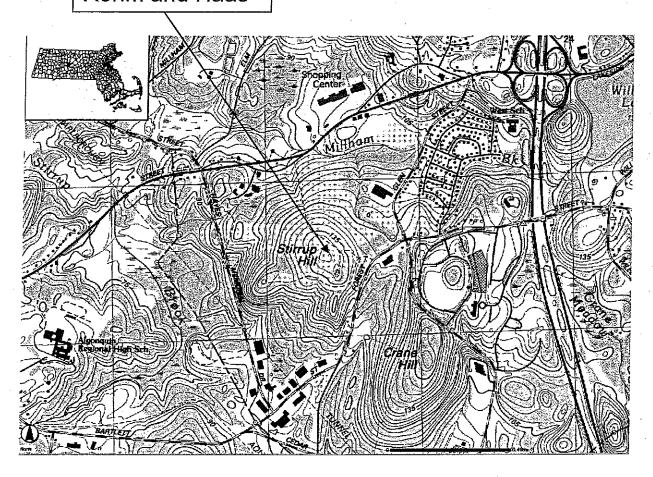
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Attachment C

Site Map and DEP Priority Resource Map

- Main Pretreatment Facility
- ATC Pretreatment System

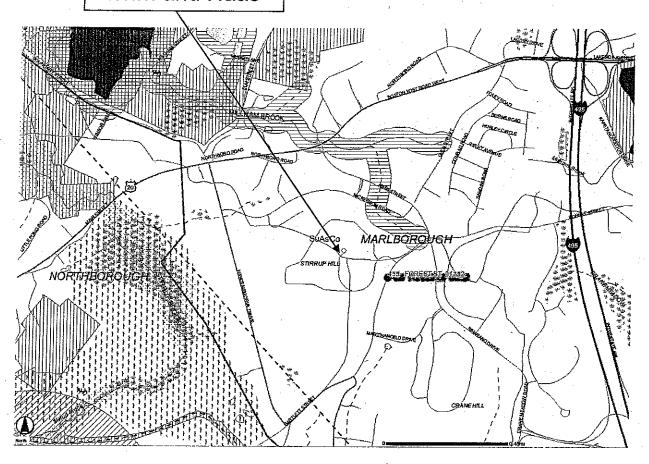
Rohm and Haas





USGS 25k Topographic Maps

Rohm and Haas





DEP MCP 21e Map Legend



NHESP Estimated Habitat
of Rare Wikisie in
Welland Areas
Certified Vernal Pools
2003 NHESP

DEP Region

Town Arcs

FEMA Floodplains 100 YEAR PLOOSPLAN



AQUEDUCT

MAXOR ROAD COLLECTOR WINDRISTREET OR ROAD.

Tracks and Trails MHD Transmission Lines







Flood Insights test results for:

Latitude: 42.325192 Longitude: -71.597773

Geocoding Accuracy: Not Available

Flood Zone Determinations

Test Description

SFHA (Flood Zone) Within 250 feet of multiple flood zones?

Out

No

Community Community Name

Zone Panel Panel Date

250203

MARLBOROUGH, CITY OF C

0025B January 06, 1982

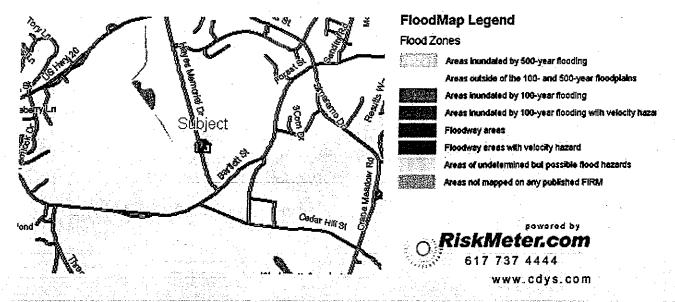
FIPS Code

Census Tract

25017

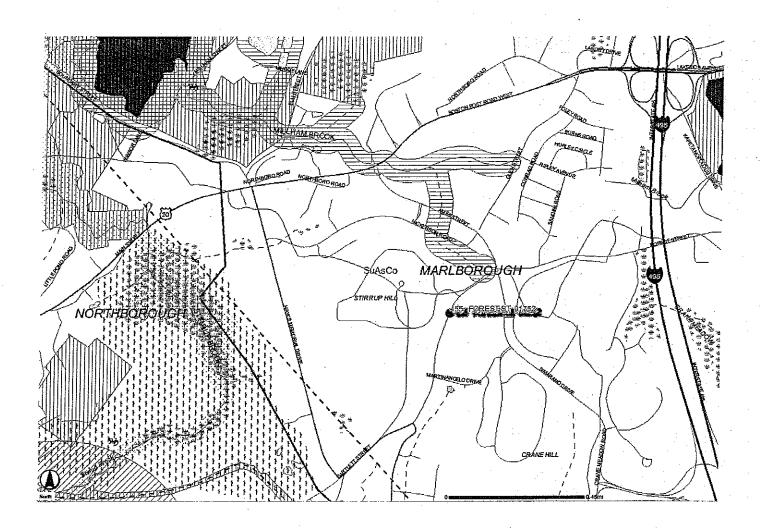
3214.00

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Attachment D

Engineering Plans

- Main Pretreatment Facility
- ATC Pretreatment System



21 B Street Burlington, MA 01803 Tel: (781) 273-2500 Fax: (781) 273.3311

January 4, 2008

Sarita Croce Environmental Engineering Manager Rohm and Haas Electronic Materials 455 Forest Street Marlborough, MA 01742

Subject: Review and Certification of IWPS Drawings by MA-Licensed PE

Dear Sarita:

In response to your request to do so, Envirobusiness, Inc. (EBI) has completed a review of the two (2) industrial wastewater pretreatment systems (IWPS) currently operating at the Rohm and Haas Electronic Materials (RHEM) manufacturing and research campus located at 455 Forest Street in Marlborough, MA. This review was completed as part of RHEM's submittal to MA Department of Environmental Protection (MA DEP) under permit category BWP IW 38, in accordance with 314 CMR 7.00. Enclosed, please find a written Certification Statement, signed and sealed by a Professional Engineer licensed to practice in Massachusetts. In addition, four sets of PEsealed drawings entitled "Industrial Wastewater Pretreatment Systems", dated 1-04-08, are enclosed.

The engineering review was completed by Mr. Christopher A. Walton, PE (MA license #39510). Mr. Walton is a Senior Engineer at EBI, with more than 17 years of experience with industrial wastewater pretreatment system design, permitting, construction, and operation. He is also a Grade 6C licensed wastewater treatment plant operator (MA license #8089).

Scope of Review

This engineering review is limited to the piping, equipment, and controls that comprise the facility's special waste collection and treatment systems (a.k.a Industrial Wastewater Pretreatment System, or IWPS), up to and including the facility's sewer connection in Forest Street. The scope of the review extends only to the piping and equipment as shown on the attached engineering drawings, dated 1-04-08. Process piping and operations "upstream" of the waste transfer stations in the Main Building are not included in this review. This review is also limited to an analysis of the facility's compliance with the design and construction standards set forth in 314 CMR 7.05(2)(g)3. Any certification made herein does not imply compliance with any other regulation or statute, nor does it relieve Rohm and Haas of its obligation to comply with applicable regulations.

Please feel free to contact me at any time regarding this certification and/or the attached drawings.

Very truly yours, EBI Consulting, by:

Christopher A. Walton, PE Senior Engineer

Cc: Paul Richard, EBI

Enc

P.E. Certification

Rohm and Haas Electronic Materials 455 Forest Street Marlborough, MA 01742

Industrial Wastewater Pretreatment Systems - As-Built Process Flow Diagram and Layout

I, being familiar with the provisions of 314 CMR 7.00 (MA DEP Sewer System Extension and Connection Permit Program), regarding engineering design and construction standards for sewer connections and industrial wastewater pretreatment systems, have reviewed the industrial wastewater pretreatment systems in operation at Rohm and Haas Electronic Materials, located at 455 Forest Street in Marlborough, MA and believe that they have been designed and built in accordance with 314 CMR 7.05(2)(g)3.

This certification is valid for two (2) industrial wastewater pretreatment systems (Main Building and Advanced Technology Center (ATC) Building) as depicted in the as-built drawing set dated January 4, 2008, titled "Industrial Wastewater Pretreatment Systems", and inclusive of process flow diagrams and layouts for both industrial wastewater pretreatment systems in place at Rohm and Haas.

This certification is no longer valid when any planned or unplanned modification takes place that can change the quantity or quality of wastewater discharges from the facility. It is understood that Rohm and Haas Electronic Materials also certifies that the information provided is true and accurate.

This certification does not relieve Rohm and Haas Electronic Materials of its duty to operate its industrial wastewater pretreatment systems and sewer connections in accordance with 314 CMR 7.00.

 $\bigcap M \cap M$

Name:	Christopher A. Walton		
Date:	1-04-08	<i>-</i>	<u></u>
License Number:	39510		
State Issuing License:	MA		



Attachment E

Description of Industrial Wastewater Pretreatment Systems

- Main Pretreatment Facility
- ATC Pretreatment System

PROCESS DESCRIPTION

Main Pretreatment Facility Process Description

The industrial wastewater treated in the Main Pretreatment Facility consists of several individual waste streams that receive segregated pretreatment, which is generally followed by flow equalization and dual stage pH neutralization. RHEM waste streams are segregated and collected in line storage tanks prior to treatment.

• Dilute Process Rinse Waters (2nd Metal Bearing Rinses and Equipment Wash Down)

Process second rinse water is collected in the 8,000 gallon main process tank. The effluent is pumped to one of three batch treatment tanks for metals removal.

The pH of the rinse water is raised to the appropriate pH for optimal removal efficiency with the addition of lime. A Barclay polymer-based flocculant is then added and mixed for a minimum of 15 minutes. In addition, polymer and coagulants are added as needed to enhance solids separation. When mixing is complete, the treated wastewater is allowed to settle for 1-4 hours. The supernatant is usually decanted to Neutralization Tank # 1; however the Post Tank may also be used for flow equalization and pH adjustment prior to discharge. Settled solids are pumped to the sludge thickening tank for further settling. The supernatant from the sludge thickening tank is eventually returned to the batch treatment tank process. Normally, the supernatant is pumped to the Post Tank, and sometimes to Neutralization Tank #1. The sludge is pumped to a dedicated filter press for solids dewatering. The dewatered sludge filter cake is shipped off-site for proper disposal as a non-regulated waste.

• Metal Concentrates (Copper and Nickel 1st Rinses)

Metal concentrates are segregated into separate holding tanks. The copper and nickel rinses are pumped to a holding tank prior to processing in the Calfran cold evaporation unit. The residual concentrate is collected and shipped off-site for disposal as hazardous waste. Effluent from the evaporation unit is directed to RHEM's main process tank for further treatment. The final step is flow equalization and pH adjustment prior to discharge.

Cyanide (Ist Rinses)

Cyanide rinses are collected in 55 gallon drums and shipped off-site for disposal.

NOTE: production of cyanide bearing chemicals has decreased significantly in recent years, and accompanying rinse wastes have been reduced to almost zero.

Application for Permit for Industrial Sewer Use (BWP IW 38) Rohm & Haas Electronic Materials, LLC

• Acid, Alkaline, Ammonia and Hypophosphate Rinses (non-metal bearing waste streams)

Confirmation metals testing are performed prior to discharging these rinses. These rinses are pumped to the post treatment tank for pH adjustment prior to discharge.

Tin (1st Rinses)

Tin rinses are collected in a 500 gallon storage tank. The contents are treated for metals removal (see *Process Rinse Waters* above), and are then directed to the post treatment tank for flow equalization and pH adjustment prior to discharge.

Catalyst Reclaim (Palladium Rinse)

Palladium is collected in drums and then pumped into a 200 gallon treatment tank, where the pH is then adjusted to 11 with the addition of sodium hydroxide. After settling for 4 hours, the decant is pumped to the main process tank for additional metals removal (see *Process Rinse Waters* above), and are then directed to the post treatment for flow equalization and pH adjustment prior to discharge. The settled palladium sludge is shipped off-site for reclaim.

Scrubber Wastewater

The effluent from the R&D ion exchange system (see below) provides feed water to the scrubber system, which consists of three wet air scrubbers that treat fumes from various locations throughout the RHEM plant. City water is added to the scrubber system feed tank automatically when the volume of R&D system effluent is not sufficient for system operation. Scrubber system wastewater is discharged to the First Stage Neutralization Tank where wastewater is automatically neutralized by the addition of sodium hydroxide or hydrochloric acid, as needed.

R&D Ion Exchange System

Wastewater from various laboratory operations is pumped to a primary tank for pH adjustment, from which it overflows to a secondary tank for further pH adjustment. The wastewater is then pumped through dual cartridge filters before being pumped through one of two ion exchange units. The ion exchange effluent is pumped into a holding tank for final pH adjustment prior to discharge to the scrubber feed tank (see *Scrubber Wastewater* above).

ATC Pretreatment System Process Description

Rohm and Haas Electronic Materials, LLC (RHEM) Advanced Technology Center (ATC), also known as Fab 4, is located at 455 Forest Street in Marlborough, Massachusetts, a part of the larger RHEM complex. Operations at this facility are described by SIC Code 2899 (Chemicals and Chemical Preparations, Not Elsewhere Classified). The ATC facility is a state of the art photolithography processing facility, capable of housing and operating the most sensitive lithography tools available. The facility operates pilot size clean rooms to process semiconductor wafers and plating lines to process printed wire boards as well as a number of quality control and analytical laboratories. The process consists of photoresist developing in which an alkaline developer solution (~2% TMAH in de-ionized water) is applied to UV-exposed, resist-coated semiconductor wafers, followed by a de-ionized water rinse. Although the facility utilizes production scale tools, its main activities include research and development (R&D) and the quality control of RHEM's products. Hence, there are no products produced and no production at the site. Additionally, the chemical and semiconductor wafer throughput, along with other material usage, will be very low in comparison to a standard manufacturing facility.

Rinsewater from the developer process is piped to a 200-gallon storage tank. Once the volume in the tank reaches approximately 20% of its total capacity, the pH of the rinsewater is manually adjusted (usually lowered) to pH 7. The rinsewater is then transferred via a sump pump to a carbon filter and then two ion exchange cartridges connected in series. After ion exchange treatment, the wastewater is transferred to a pH adjustment tank for active neutralization with sodium hydroxide and sulfuric acid. The reverse osmosis (RO) reject water is transferred directly to the neutralization tank. The treated wastewater from the neutralization tank flows into a final equalization tank where the effluent pH and flow is recorded, before it is continuously discharged to the Marlborough Westerly Waste Treatment Works (MWWTW).

In April of 2008, RHEM will add an additional process to the existing ATC facility to be known as "Fab 5". Fab 5 operations are very similar to all the existing ATC operations. The addition of Fab 5 will increase the capacity of this facility. Wastewater from this building will be treated by the same industrial wastewater pretreatment system as the ATC building. Currently, there are no plans to add new chemicals for the processes in Fab 5. RHEM estimates that the total process flow discharged, including the new Fab 5, through this system will average approximately 2,500 gallons per day with a maximum of 3,000 gallons per day.